THE AMERICAN RIFLEMAN

1945
MON.
TUES.
WED.
THURS
FRI
SAT
FELLAS, LET'S START THE NEW YEAR OFF RIGHT! THIS CALENDAR CAN HELP US DO IT!
WE'RE WIDE OPEN TO SUGGESTIONS, PETER. GO AHEAD AND READ IT!
O.K. FIRST--LET'S DEVOTE EVERY MONDAY NIGHT TO PISTOL SHOOTING FOR MEMBERS!
GREAT! WE'VE GOT A MONDAY NIGHT DATE RIGHT NOW!
TUESDAY NIGHT CAN BE DEVOTED TO RIFLE PRACTICE FOR PRE-INDUCTEES!
KEEP GOING, PETE! IT HAS THE MAKINGS OF A POSSIBLE!
WEDNESDAY NIGHT LET'S OPEN THE RANGE TO THE POLICE DEPARTMENT FOR PISTOL PRACTICE!
NOW YOU'RE TALKIN'! THEY'RE OVERCROWDED DOWN AT THE STATION HOUSE RANGE!
THURSDAY NIGHT CAN BE OPEN HOUSE FOR RIFLE PRACTICE FOR MEMBERS!
THREE CHEERS, PETE! AND FRIDAYS?
FRIDAY NIGHT, LET'S TURN OVER THE RANGE TO THE INDUSTRIAL LEAGUE. THOSE PISTOL-SHOOTING GUARDS MUST PRACTICE!
BRAVO, PETER! ONLY ONE MORE NIGHT TO GO!
AND HERE'S THE PAY-OFF! SATURDAY NIGHT CAN BE LADIES' NIGHT—RIFLE OR PISTOL!
BOY! NOW I WON'T HAVE TO STAY HOME SATURDAYS!
YOU'VE HIT THE BULL'S-EYE, PETER, HOW'D YOU DO IT?
IT'S EASY WHEN YOU'VE BEEN IN THE HABIT OF SHOOTING PETERS POLICE MATCH* AMMO!
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Rifle and Pistol Ammunition
PETERS CARTRIDGE DIVISION, Remington Arms Co., Inc., Bridgeport, Conn.
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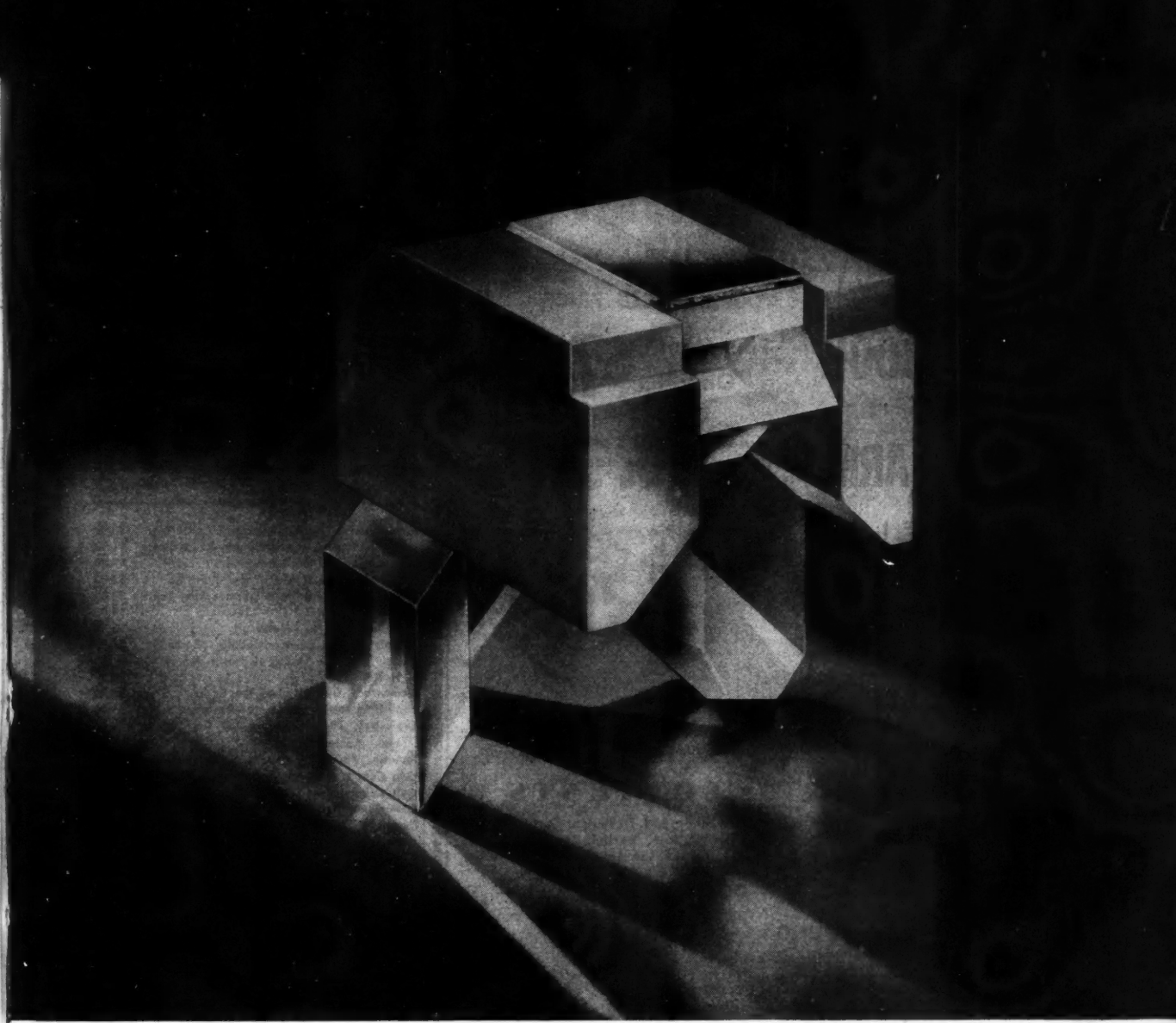
POLICE MATCH
38 SPECIAL



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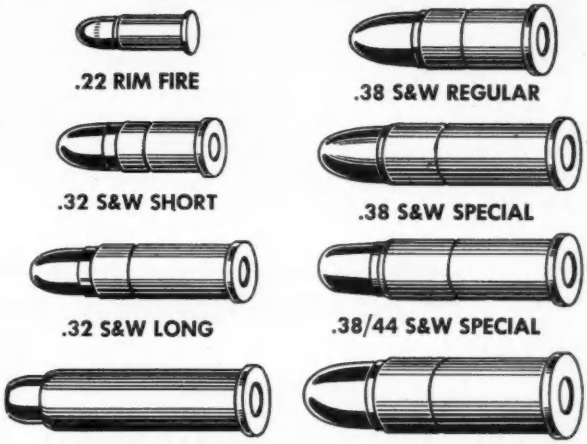

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An Editorial

Universal Service

SHALL we, or shall we not, have universal military service in the United States of America? This is a question which should be decided in 1945. Nothing is to be gained by waiting for that indefinite time vaguely referred to as "after the war." The time to decide a momentous question is the instant all pertinent facts are available, the evidence fresh, and the reasons clearly defined in the minds of those who must give the evidence and those who must decide the issue.

Certainly all the pertinent facts are available now. Certainly those best equipped to present the evidence are available in greater force now than they will ever be again. Certainly the reasons impelling the discussion and demanding a decision are clearer now than they will be when the fog is rising from innumerable peacetime political conflicts within and without our borders.

Why, then, delay the discussion and the decision? There are two reasons. First, the groups who oppose universal service know that their one best hope of killing such a law is to delay its consideration until the witnesses are scattered and gone and the need forgotten in the easygoing fashion of America-between-wars. So the opponents talk about "further research" and "coolheaded deliberation," knowing full well that the political coward, seeking to straddle an issue he fears, will always vote to appoint a committee in preference to voting "yea" or "nay" where his position can be seen by all his constituents.

Thus the second reason, political cowardice, stems from the first. Because popular opinion in America does, at this time, definitely favor a permanent universal service law, the political straddlers would vote "yea" if forced now to vote. Delay the whole thing until the bungling, lost time, and useless casualties of this war have been forgotten, until the soft psychology of America-between-wars has again taken control of our mass thinking, and the few opponents of universal service plus the political straddlers will once more leave an unprepared America standing on the auction block before the international pirates and brigands of the next generation.

It is true that the *technical details* involved in drafting the best kind of universal service law call for patient study and intelligent compromise by the best available military, naval, and civilian minds. The strength, length of service, type of training, order of call into service for regular, national guard, and reserve units; the method of selection, training, and promotion of officers and noncommissioned officers; the question of exemptions and what to do with those exempted, are matters of utmost importance. Full hearings should be extended to the men who are now too busy fighting this war to take time out to talk about fighting the next one. It would be a political error and against the best interests of the national defense to attempt to enact in 1945 a revised National Defense Act incorporating a complete plan for universal military service. The *details* must wait until men now fighting under the handicap imposed by our catch-as-catch-can "defense" policy can sit around the conference table with business men, educators, and congressmen and work out a sensible, workable, American-type plan. However, these very men, who must fill in the *details*, know from bitter experience that if the *principle* of universal service is to be written into American law it must be done before this war ends. This is the cold, hard core of the matter. The badly assorted and not-too-logical opponents of universal service realize the fact and intend to capitalize on it by seeking delay. The proponents of the *principle* of universal service are not, themselves, too well co-ordinated on the *details* but they can combine their efforts on a drive to secure the enactment of a law establishing the principle that every man who lives under the shelter of the American flag has the definite duty to prepare himself to efficiently defend that Flag and the principles it represents. Those who sincerely want that principle written into law will waste no time in pressing their views before the new Congress. Let the details wait.—C. B. L.

The

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A Rationed HUNT

by Francis Sell

FOR AVERAGE ALL-AROUND DUCK SHOOTING, I have always thought that Size 6 shot was tops in any gauge from 12 to 20. It has weight, yet it is small enough to give good dense patterns at all reasonable ranges. . . . So, when I started to scrape the bottom of my supply of 12 and 20 gauge loads in this size, just when the heaviest flight of ducks in years were pitching into the marshes I hunt, I felt sunk!

To add to my chagrin, during the deer season I had discovered a pass in a range of hills which literally swarmed with ducks during the shooting hours on the adjacent marshes. The river made a wide U turn around the hills there, and ducks, stirred up by the hunters on the marshes, passed constantly over this logging burn. What's more, this pass was mine alone. No one else knew there was good shooting to be had in the rolling hills a good mile from the marshes. . . . All this—and me with not enough duck loads for one day's shooting!

I had just one broken box of 20 gauge, Size 6, and there were just seven shells left for the 12 gauge. I searched through the odds and ends of my den for the 'steenth time, turning up salmon and trout tackle, tools, and odds and ends that had been lost for years—but nothing in the way of ammunition could I find.

I counted the shells in the broken box of 20 gauge 6's. There were just ten loads. Ten loads—for a 20 gauge gun! A nice layout for a day's pass shooting! For it is axiomatic that pass shooting is long-range shooting. Pass shooting is very different from taking fat old greenheads pitching into a string of well-placed decoys along the willows! I wondered if it was even worth the hard scramble through the tangle of wet vine, maple, and huckleberry brush, just to shoot ten shots on the pass.

My musings were interrupted by my wife. She was on one of her periodic cleaning bees. A closet in the hall was getting her immediate attention. "If you don't get these shotgun shells out of here," she said sternly, "and put 'em in your den where they belong, I'm going to throw them out in the yard!"

"Shotgun shells?" (Did you ever hear the slavering yelp of a hungry dog as the aroma of a well-filled pot surrounds the cooking fire?) I dashed for the hall. Friend Wife had placed three boxes on the floor. I grabbed her and danced, ignoring her startled protest, ignoring even her unfair and unjust references to old roosters who couldn't keep their bills out of a certain well-hidden hoard of applejack in the basement. She got one arm free, at last, and flourished her dusting mop and I retreated.

But I took the three boxes of shells with me. They were broken boxes, but they felt heavy. I dumped them out on my desk and began to look them over. So far as ducks were concerned they were a disappointing lot. Most of them were 20 gauge, holding seven-eighths of an ounce of Size 9 shot. There were a few 8's, three 7½'s,—but not a single ounce load of 6's in the lot.

I remembered buying those shells. They had been around the house since the days when it was legal to hunt snipe. Number 9 shot is hot stuff for those swamp jitterbugs. Just the other day I had jumped a flight of snipe in the marsh. I tried to get on them with the gun. They twisted and darted, sideslipping over the marsh grass. I used to get about one bird to eight shots, using Number 9's. Yes, 9's are made to order for snipe, but as a duck load—?

The next morning, however, I was on my way to the logging burn. The few ounce loads of 6's, along with the 7½'s, 8's, and 9's were tucked in the back of my hunting shirt. A sharp lancing rain shook the trees as I made my way across the broken hills. If there was any shooting along the river, ducks should

be crossing the logging slash today. The wind might put them down close enough even for Number 9 shot.

This shooting, remember, was an unknown quantity to me. I had discovered the pass while hunting deer. There was a small lake nestling in a fold of ground near the tops of some ridges. Ducks were using it as a hideaway. But most of the shooting, I expected, would be at ducks crossing the hills to drop into the marshes on either side of the range where the river made its wide U turn.

While crossing the woods toward the logging burn, a ruffed grouse flushed out of a glade with its characteristic thunder of wings. I saluted it with two loads of my precious 6's It topped a small clump of spruce and crossed a draw, unharmed. And that left me exactly eight duck loads! I swore and unloaded my Remington pump. I didn't want to be tempted again, unless it was ducks.

By the time I reached the logging slash, the rain had slackened a little. A brisk wind ruffled the brush. Ducks were coming over in long, wavering, ragged strings. An occasional gun sounded on the river. It was an ideal setup. I stood for a moment, just watching the flight. Some of the ducks set their wings and came down steeply to splash in the small lake.

I moved along the ridge until I was directly above the water. Then I sat down in the huckleberry brush and sorted out my ammunition. The 7½'s, 8's and 9's I put in a front pocket of my hunting shirt where they would be handy. The 6's went into another pocket. I would use the 6's first, and kill cripples and finish out my limit with the lighter shot as a last resort.

I had hardly completed these arrangements when a flight of a dozen mallards came over. They were within forty yards as they crossed my blind in the huckleberry. I had barely time enough to get two shells into my gun. I stood up. Swinging steadily, I tried for the old greenhead out in front of the flock. The first shot was a clean miss. But on the second shot, he fell.

A flight of fifty or sixty mixed ducks came winging over me. I watched them narrowly as I reached into my shirt for more shells. They circled the burn, swinging away to come in to the lake against the wind. From my position on the ridge, they were almost directly on a level with me, coming head on. I dropped one from the head of the flock, cut down a mallard hen when they flared, and missed cleanly with my third shot.

As the morning wore away, the flight increased. There was a constant pounding along the river where the duck hunters were stirring them up. I began picking my shots. Nothing much over forty yards would I take. Those coming over at fifty and sixty yards were left strictly alone. Five ducks were lying beside me. But my precious 6's must be almost a thing of the past.

I felt of the pocket where I had placed the 6's, at the same time eyeing a flock of mallards coming across the burn from the river. The pocket still bulged with shells! Startled, I forgot about the flight for a moment. I examined a shell. Yes, it was a 6. I patted the pocket in which I had placed the 7½'s, 8's, and 9's. That pocket felt very much flatter than it should have felt!

I'd been using the wrong shells! Just what size shot had made the kills, I had no way of knowing. The only thing I did know was that I hadn't used my favorite 6's. Yet, so far as I could tell, I was getting my average percentage of clean kills!

A mallard hen slipped in and settled on the water. She was nervous, swimming in small circles, eying the deserted water. In a moment she was up, going like the milltails of hell, straight away. I swung on her, and just as the gun blotted her from sight, I touched the trigger. She fell (*Continued on page* 13)

The RIFLE for the

An Appraisal of the .270 Winchester

MAJESTIC PINE AND SPRUCE shaded the north flank of a lofty peak in New Mexico's picturesque Black Range as Clint Josey and I, mounted on sure-footed horses late one fall afternoon, rode slowly up an old game trail that skirted the west rim of the peak in search of the gray ghosts of the mountains. Suddenly, my eyes focused on a suspicious movement in the underbrush seventy-five yards ahead. A hasty signal put my companion on the alert and we tumbled out of our saddles, rifles in hand.

Two mule deer crashed through the dense forest without giving us a chance to draw a bead or even to admire their sleek bodies. But mule deer are almost as curious as antelope, and antelope are as curious as women! When the bucks reached the crest of a low ridge, a long rifleshot to the west, curiosity prompted one of them to pause briefly for a backward look.

It was just such a look that got Lot's wife in trouble! The gold bead of Clint's .270 came to rest just back of a buck's foreleg and he eased one off. One was enough! The buck collapsed in his tracks. He seemed literally to die on his feet—killed bomb-quick.

To Clint, a new convert to the .270, the performance of the tiny 130-grain bullet was amazing, but to me it was old stuff. Lightninglike kills can be expected from head or neck shots with most any rifle, but Clint's bullet touched neither of those vulnerable spots. This was a lung shot, and deer often run far with mortal wounds in this region. But not this one! That .270 slug had blown its lungs to shreds. A double handful of pulped "lights" protruded from the exit wound. Clint felt that he'd had a blind date with Lady Luck, but he was wrong. The .270 has the habit of doing that little trick, not just occasionally, but with surprising regularity.

This incident is mentioned here because it is typical of the performance of the .270 on deer and similar game, and because it parallels my own experience with the arm over a fifteen-year period of varied and highly satisfactory hunting.

The .270 Winchester is noted for high speed and quick kills. Both factors are vital to big-game hunters, and they are responsible for the rifle's popularity with mountain-scarred veterans who hunt deer, sheep, antelope, goat, caribou, and black bear. But, while the .270 is not a squirrel rifle, neither is it an elk rifle.

My own experiences with the arm have convinced me that it is difficult to overestimate the value of bullet speed. Flat trajectory and short time of bullet flight are one and the same quality, but they affect the hunter differently. Flat trajectory tends to prevent misses due to errors in range estimation, and to counteract the sour holding that is inevitable in big-game hunting. Short time of bullet flight permits us to cut down our lead on running game. We have all learned that the less the lead, the easier it is to connect with the quarry. Proportionately, the amount of lead on moving game varies directly with the right-angle speed or net cross speed of the animal, and varies inversely with the speed of the bullet, which gives the high-velocity bullet a big advantage over a slower bullet when it comes to hitting 'em.

The .270 develops a high initial velocity with both its 100- and 130-grain loads; and the high bullet coefficient and good sectional density of both of these Spitzer bullets help to sustain that high velocity. All of us realize that a long, sharp-pointed, streamlined bullet of small diameter encounters less air resistance than a short, blunt, or flatnosed bullet of equal weight; so, from the ballistic standpoint, the 100- and 130-grain .270 bullets are all to the good. The only commercial loads that whip along at a faster clip are the pointed forty-eight grain .220 Swift, and the 110-grain .30-'06, neither of which I would choose for big-game shooting. At ranges slightly in excess of 300 yards, the 100-grain .270 load is even faster than the amazing Swift.

The real value of flat trajectory and short time of bullet flight shows up only in the game fields. My own experiences tend to show that I can connect far oftener with the .270 than with the .30-'06, and my experiences jibe with those of my correspondents. Hundreds of old-timers look upon the .270 as the one best bet for long-range shooting at all big game under elk and moose, and they say it's dynamite even for these huge beasts except when large shoulder or hip bones are encountered.

The bullet drop of the 130-grain load is so small that there is no excuse for missing the vital area of a big game animal up to 375 yards when the rifle is zeroed for 250 yards. On one occasion, with my sights set for 200 yards, I scored three hits in as many shots at a mule deer at 425 measured yards, and it takes a keen rifle to duplicate that performance.

From the standpoint of accuracy, the .270 has plenty on the ball, too. It is not primarily a target rifle, nor is its ammunition commercially loaded for target shooting, but the .270 standard hunting rifle with the best grade of commercial hunting ammunition affords slightly better accuracy than a similar rifle and similar ammunition in the .30-'06 caliber which has long

e SOUTHWEST

By MONROE H. GOODE

been the yardstick for measuring big-bore accuracy. Given a special Bull Gun bored to spin a heavier bullet, the .270 would certainly give a good account of itself on the target ranges.

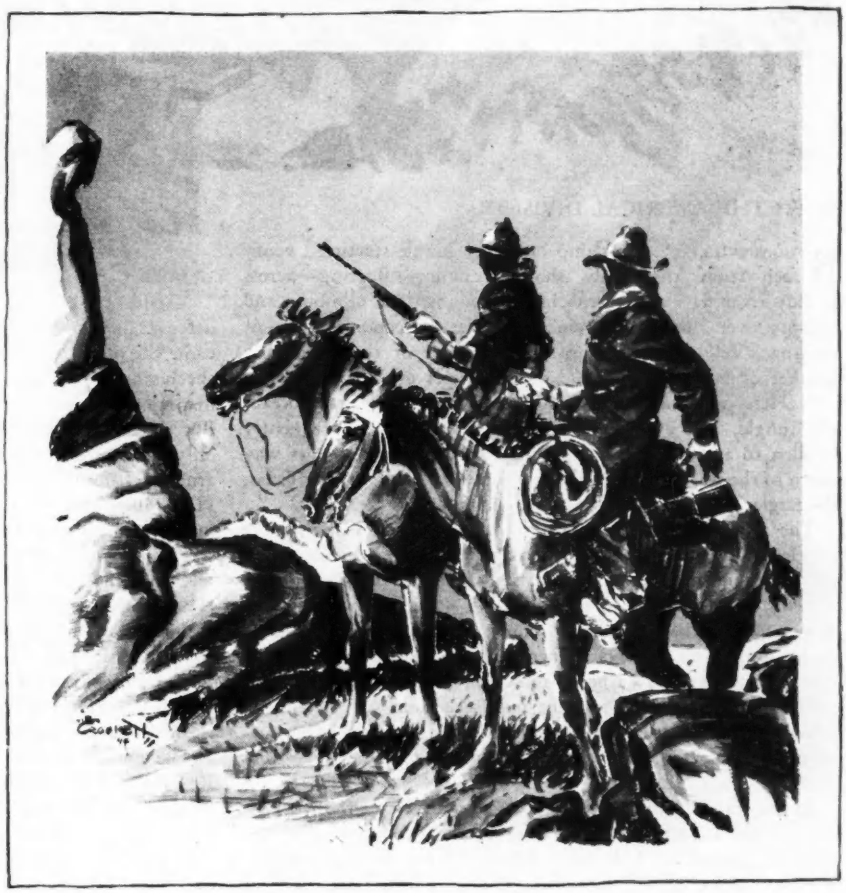
To the big-game hunter, killing power transcends in importance any other quality found in hunting rifles, even though there may be nothing more tenacious to shoot than a Texas jack rabbit. On the lighter species of American big game, the killing power of the .270 is superb. No other commercial cartridge can equal its record for having slapped horizontal in the blinking of an eye, with a single shot, as large a percentage of deer, sheep, goat, antelope, caribou, and black bear. It has accounted for hundreds of elk and moose and big bear, too, although it's far from perfect for such huge beasts.

The .270 owes its sleep-producing qualities to the terrific speed of its two Spitzer bullets. We have found that super high speed has ushered in a new factor, the so-called "surgical shock" or "explosive effect," which is characterized by remarkably quick kills in the majority of cases. A wound caused by a super high-speed bullet is entirely different from that produced by an old-style, low-velocity bullet. The conclusion is inescapable that the rate at which the bullet's energy is delivered to the animal tissue is decidedly more important than the amount of energy delivered. And thus we say that the terrific wound capacity of the 130-grain .270 bullet is due partly to its shape, sectional density, and the scientific construction of its bullet, but primarily to its striking velocity, not its muzzle velocity. But experts are agreed that of all the factors that influence killing power, the velocity of the bullet is the most important.

You can't expect identical performance from a horse and a mule, though they do have many points of similarity. Likewise, the effect of a heavy bullet cruising along at low velocity is entirely different from that of a light bullet driven at terrific speed. The slow bullet will usually afford the greater penetration since it does not expand excessively or blow up completely; and it is usually a more dependable, though a slower killer. On the other hand, the high-speed bullet will smack down animals susceptible to the shock it delivers, but it is not to be relied upon to dispatch heavy or dangerous game. Nine times out of ten, a 130-grain .270 bullet will traverse, from side to side, the body cavity of a deer, antelope, or small bear. The bullet rarely stops inside. That seems to answer the argument of those who object to the .270 on the ground of insufficient penetration. But simply because one person has never seen a 130-grain .270 bullet stop in the body of one of these animals does not mean that it cannot or has not happened. It can and does happen now and then.

While we are looking at the dark side, let's take a good look. That deep penetration is needed to drive through to the vitals of powerful animals encased in thick hides, tough muscles, and cementlike bones, is as inescapable as a whiff of garlic in an elevator. Deep penetration comes only with blunt-nosed bullets propelled at low or medium velocity and with minimum loss of bullet weight; so, for powerful animals of the types mentioned above, we choose a rifle of larger caliber, shooting a heavier bullet at low or medium velocity, such as the 220-grain .30-'06, or the 270- or 300-grain .375 Magnum.

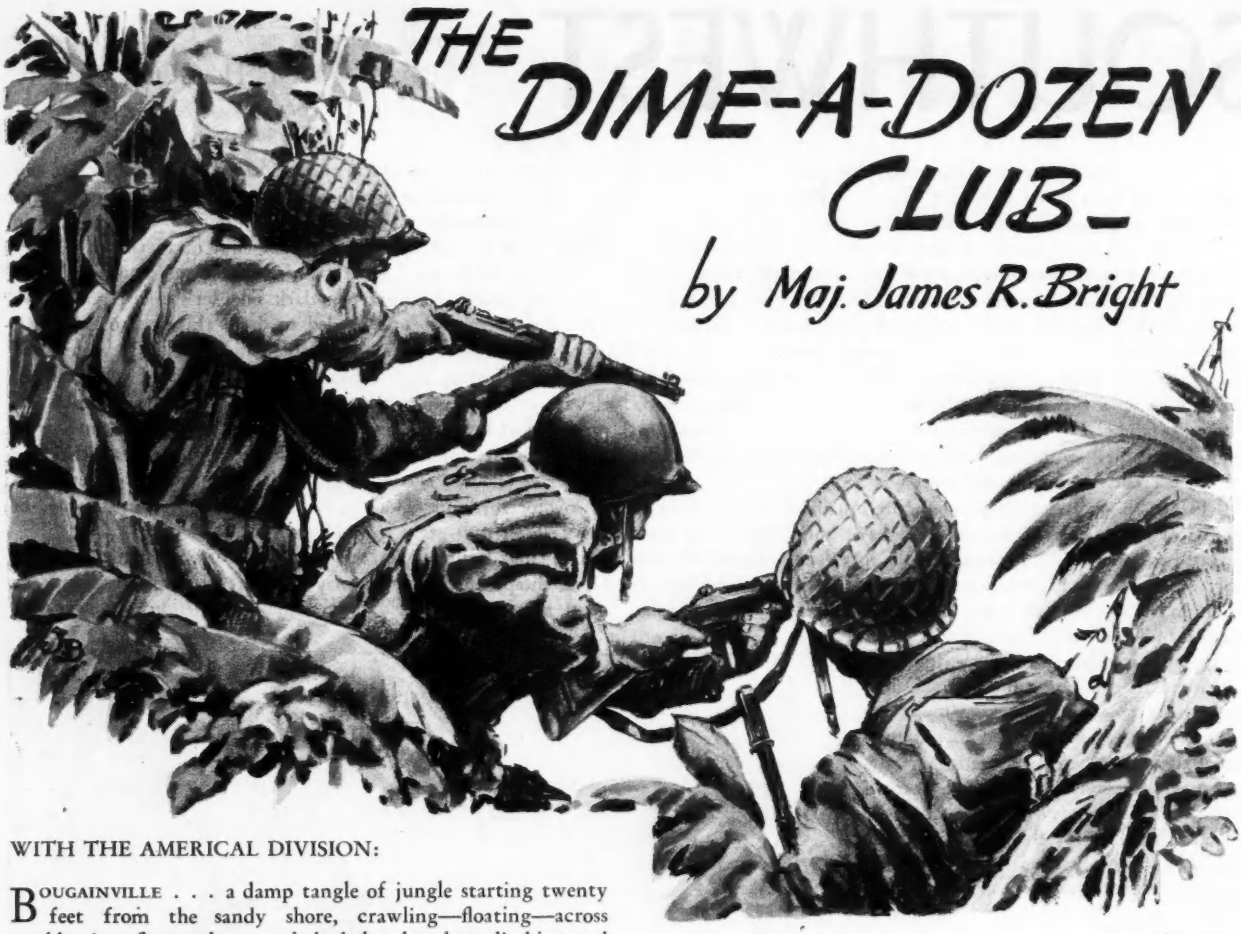
But maximum penetration is wasted on fragile animals. Deer, sheep, and antelope may not offer enough resistance to cause bullet expansion. So we cannot (*Continued on page 30*)



The Bucks Reached the Crest of a Low Ridge, a Long Rifle Shot to the West

THE DIME-A-DOZEN CLUB

by Maj. James R. Bright



WITH THE AMERICAL DIVISION:

BOUGAINVILLE . . . a damp tangle of jungle starting twenty feet from the sandy shore, crawling—floating—across muddy river flats and green-choked sloughs, then climbing and dipping over ridge and ravine up an ever-ascending series of razorback hills to end abruptly at the edge of the smoldering blanket of lava dust high up on the slopes of Mount Bagana. . . . Here and there, a swampy mass of Kunai grass breaks the jungle, and every few miles a muddy river, frequently swollen to a racing torrent by the tropic rains, makes its way down to the sea. The Laruma, the Torokina, the Jaba, the Texas, the Eagle . . . rivers whose names you've never heard . . .

The sun shines hot and clear in the mornings, bringing the jungle to a steaming heat. But nearly every afternoon the clouds gather around Bagano, move toward the range of hills behind the airfields and then out to sea, dumping water in swift sudden downpours on the green land. Sometimes the rain keeps up all night, sometimes for days. Then the Laruma and the Torokina can rise six feet in two hours to sweep away bridges, wipe out fords, wash men and equipment to destruction. Higher in the hills a hundred little streams become plunging watercourses, cutting trails, blocking the route of patrols, sometimes drowning weakened Japs.

In this jungle, called by explorers the densest in the world—here in the Empress Augusta Bay sector of Bougainville—the hunting, patrolling, fighting had endured month after month; almost a year. Back in March, the Japs had gathered their forces from Buka, Kieta, Numa-Numa, Kahili . . . and for more than a month had hurled themselves against the perimeter of defense lines about the vital airfields—airfields from which came the planes that knocked out Rabaul and Truk. Some day the history of this battle will be told, with clear-cut, precise maps on which neat little arrows mark the way each unit moved. But the men of the Americal and 37th Divisions will remember only a few strange-sounding names and the hot, wet, dirty work around Hill 700, and at Snuffy's Nose, at Division Hill, and at Hill 260. They will remember the countless patrols probing into Jap forces on a thousand little trails, and the bloody slaughter of Japs back of the Sawmill Road and around the banyan tree on Hill 260.

Some of these men have riflemen's stories to tell; stories that are not at all out of keeping with the tradition of the Kentucky rifle and the "dark, and bloody ground." Others tell tales akin to those of our Wild West; of encounters where speed and accuracy combined to save white lives. Among these men are the members of the Dime-a-Dozen Rifle Club.

The Dime-a-Dozen Club was the brain child of Lieutenant Ray Ross, of Medford, Oregon. The name means exactly what it says. To the members of the Dime-a-Dozen Club, Japs are worth one thin dime per dozen. After each patrol, Lieutenant Ross pays off in dimes and with a certificate which testifies to the individual's performance out where the shots mean business. Only witnessed shots count! Here's the story as Ross tells it:

"Back in March, it was no secret that the Japs were gathering

for a real scrap. Time after time we were sent out on patrols to break up OP's, cut supply trails, hit small parties, and generally hinder them. With a combat patrol of sixty men or so, we'd get ten or twenty Japs, but we'd always lose a couple of men, too, wounded or killed. It got on my nerves knowing that we were pretty sure to lose somebody every time; so I got the Battalion Commander's permission to organize a club of snipers. Regimental Headquarters thought it was a good idea and gave me the pick of the regiment.

"We asked for volunteers and, of course, got more than we could use. I wanted nine men to make three teams, with myself as C.O. Picking the men was tough. I checked them on their jungle work, got their reaction timing on various courses, and tested their shooting ability. We dropped five of the very best prospects because they didn't know how to handle their guns. We wanted experts. *Without exception, a man builds up a lot of cool confidence in himself if he's a good shot.*

"We organized into three-man teams. One member of the team is the observer. He lies out in front with a pair of field glasses and watches the area we're going to hit. The second man is the sniper. He's not supposed to do anything but take the shot. Most of the time he rests on his rifle, doesn't bother to search the terrain, just takes it easy till we need him. The third man, in the rear is for security and flank coverage. Many a time we've lain right in the middle of a Jap bivouac area, with Japs coming and going all around us. We've been able to do it

Courage is not enough! It takes courage—plus woodcraft, hunting instinct, steady nerves, patience, stamina, and highly developed shooting skill to play—and win!—at this life-and-death game in the steaming South Pacific jungles. The premium on Japs is low—ten cents a dozen—but the penalty for just one slip . . . is death!

because this calm division of labor takes some of the strain off the individual. If you don't split up the duties, if every man is trying to look in all directions, if each man is tensed up for a shot, you won't last long. You sweat, then you get a headache, and you get weak. But this way, with these cool and well-trained men, it's comparatively safe and easy.

"Generally we'd go out and work our way into a Jap area. We'd lie there studying the situation; then the teams would withdraw and we'd make our plans. Sometimes we'd spend two whole days just scouting around to find out where their trail blocks were, where they ate, drank, what trails they used. The next morning we'd get up about 4 A.M. and move into position. The teams would be perhaps 150-200 yards apart. Around 6 A.M. the Japs will start wandering around, getting chow, and so on. Quite often they'll come along unarmed, not dreaming that there's an enemy within a couple of miles. But, armed or not, they're duck soup. A couple of shots ring out from one team, then two or three from another, and we fade off into the jungle, leaving some dead Nips for live Nips to bury and to worry about.

"I get a big kick out of working on their morale this way. I honestly don't believe they've ever seen us in all our trips; and that's nerve-racking. Sometimes after we'd fire we'd hear them scurrying around, forming a combat patrol. When this happened, we'd just pull out over the ground we'd reconnoitered, and stir them up somewhere else.

"Every time we went out we got Japs. It was easy! As long as you've got a good bunch of men, men you know you can count on, and as long as you've got a couple of yards of jungle between you and the Japs, you're plenty safe. It did a lot for our morale, too. This gang of mine can go anywhere."

Ross says that, when they were formed, the order was to use the sniper's rifle, the M1903A4 Springfield—an '03 with a Weaver 330 scope. They trained with these and took them out on one trip, but later dropped the '03A4 in favor of the M1 and the carbine. "The men," Ross says, "are strictly for the M1. I'll take the carbine myself. I like it because of its light weight, greater fire power, and because I can carry more ammunition. I will admit it sometimes takes me two shots to put a man down with the carbine, but that's O. K., since most of our shots are at less than sixty yards.

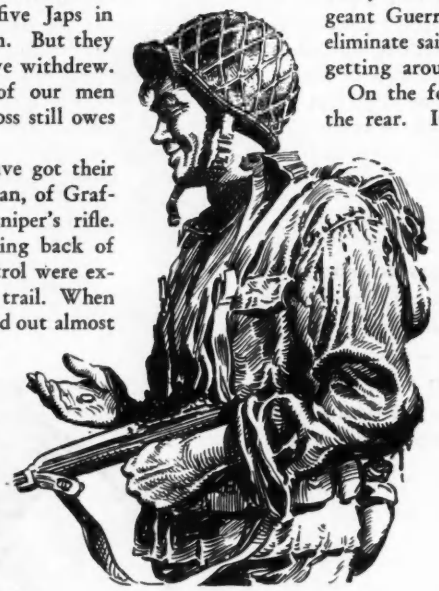
Ross thinks the leading scout, on patrol work of this kind, should be armed with a carbine. "When you're rounding a bend in the trail and run into a Jap ten or twenty yards away—brother, you've got to work fast! That's where the carbine comes in handy. You can swing it quickly for hip shooting. We shot thousands of rounds in training that way, and most of the men can hit a kneeling man every time up to twenty-five or thirty yards from the hip."

One of the best Dime-a-Dozen boys is Technical Sergeant

Cottrell, from Wadena, Minnesota. Here is Cottrell's story of one Dime-a-Dozen trip:

"One of the native police boys told us there was a company of Japs at a place called Sisivie. So we headed over there. (Jap companies on Bougainville were down to around sixty men in strength.) The Japs had taken up a position on the nose of a ridge. They had built five native-type shacks and were making themselves comfortable. We moved in slowly through the jungle and got right up to the edge of the clearing. The Japs were all walking around, cooking, washing clothes, playing cards, and we watched them for better than half an hour. There were two of us covering each shack. This time, we had left some of our men covering our back trail. Lieutenant Ross had given us orders not to fire until he fired or until the road block guard behind us opened up.

"Finally some Japs came up the trail and we heard our rear guard open up on them. So we let the Japs in the clearing have it. There sure was some excitement. They had dug-in positions inside the shacks with machine guns mounted in them, and at one shack we piled up five Japs in a row as they dove for that machine gun. But they finally did get some guns working and we withdrew. Score: twenty-six Nips and not one of our men scratched. Yeah, and say, Lieutenant Ross still owes us twenty cents for that deal!"



Lots of other men in the regiment have got their share of Nips, too. Staff Sergeant McLean, of Grafton, North Dakota, got two with a sniper's rifle. It was about 7 A.M., on a patrol working back of Hill 600. McLean and others of the patrol were extended in a skirmish line, moving in on a trail. When McLean hit his part of the trail, he stepped out almost into the arms of four Japs. He got two of them. Distance? Twenty feet. "I think I could have got all four if I'd had an M1. For that kind of work, that sniper's rifle isn't fast enough."

This opinion is confirmed by many of the combat infantrymen; men who have seen thirty-three months of service in the South Seas. They say the scope is too delicate; that, with it in place, the '03 can't be fired quickly enough, nor can snap shots be taken. But the principal complaint is that the scope fogs up and is useless in the rain. Picture for yourself the telescope on a jungle patrol: You leave in the morning, when the temperature is 110 degrees. It's a little cooler by two o'clock because clouds have covered the sun. About three-thirty it pours, and keeps on pouring until six. From six to nine, it tapers off with light showers. Much of this time you have been moving through heavy underbrush, wading streams, and dripping with sweat. If you're lucky, you may get a chance to build a palm-leaf shelter and bed down dry for the night. Anyway, you wipe the scope and try to keep it dry. But when you look into it the next day—frosted glass lenses! Or a San Francisco fog! This may be very embarrassing in case you have to draw a bead on a Nip!

Some of the sniper rifles are said to be equipped with Lyman Alaskan scopes. We have not had an opportunity to use these, but I personally suspect that the same thing would happen with any scope unless it was specially waterproofed. The finest binoculars, B.C. telescopes, and all kinds of fire-control instruments fog up in this rain and humid heat. Fungus grows in these instruments in less than a week's time. My "waterproof" watch collects beads of moisture on the inside face of the crystal on some days.

Cottrell did get one Nip with the sniper's rifle. He was sitting out on the nose of Hill 600 before we had taken over and noticed a grass shack about 250 yards away and well beneath him. Off to one side two Nips were cooking supper. One shot was enough to finish the first one but Cottrell says the second took off before he could reload and get a bead on him. Cottrell says, "It wouldn't have happened if I'd had an M1 or a carbine!"

Staff Sergeant Guerrero, of Alhambra, California, tells of another experience typical of the kind of woodcraft and shooting called for in the jungle. Far up the Laruma Valley is a dominating hill which is known as Nip Hill. Our troops moving into the valley, fording the Laruma thirteen times on their way upstream, were often under observation from this hill. One of our foremost outposts was catching mortar fire that was certainly controlled by a Jap OP. on this height. So Sergeant Guerrero and Lieutenant Christie went out to eliminate said OP. They spent *three days and nights* getting around behind this hill.

On the fourth day they approached the OP. from the rear. It lay just over the ridge. Christie took the right, Guerrero the left. The latter eased his way around the left rear of the rise and heard voices. He stepped forward just far enough to get the complete picture of the OP.—a dugout at the foot of a banyan tree, with two Japs sitting side by side looking out over the Laruma Valley. They were ten yards away. Guerrero shot from the hip with his M1. Just twice. . . .

One of the longest shots in the campaign was made by Private First Class Phillips, from Walton, Kentucky. This lanky boy has been shooting .22's at small game ever since he can remember. His buddies say he is probably the best shot in his company.

One August day, Phillips and Lieutenant Fossan lay on a bank about a hundred feet above the Laruma River. From here they could see well up the river bed although a heavy rain had been falling off and on all day and the upper end of the valley was cloudy and misty. Suddenly Phillips saw five men walking single file around the bend of the river.

"They were a pretty good piece up the valley," Phillips says. "I wasn't sure they were Nips at first. They wore raincoats and the light was pretty bad. But just then the clouds parted for a minute and a little of the late afternoon sun came shining in on 'em. We could tell then that they were Japs all right. The Lieutenant and I figured it was about 400 yards to them, so I took the rear sight on the M1 up to twenty-two clicks. It takes twelve to give it its 200-yard zero. At that distance the front of the sight is a couple of times wider than a man, but I held it centered as best I could on the middle of the back of the last man. When I touched her off he just sort of sagged frontward and fell on his face. He never budged. But the rest of them were around the bend before I could get off another shot."

When it comes to short shots, up to the time of this writing,

Private First Class Taylor, from Modesto, California, holds the company record. He killed one Jap at a distance of only three feet! Killed him with a pistol.

Here is how it happened: Back in March, Taylor found himself occupying an exclusive foxhole located well away from the noise and turmoil of the front lines—well out ahead of them! It was one of those pitch-dark nights. Taylor heard something shuffling and scraping the ground as it approached his foxhole. He got his .45 pistol ready. Against the deep black of the sky an even darker shadow moved into view. It came nearer; so near that Taylor could hear the man's uneven breathing. It was a Jap; Taylor knew that now, and he leveled his gun—pulled the trigger three times. The fast burst caught the Nip in the chest and he collapsed, his "banzai" days ended forever.

Taylor's latest experience came on patrol when a hidden Jap machine gun opened up. Taylor dropped flat while the gun raked over him, and today he carries five bullet burns across his back. If anyone wants a lesson in groundhugging, see Taylor! He's an expert!

To the rifleman and military observer these experiences, which have been duplicated by many others out here, indicate that jungle warfare has a particular need for resourceful scout-woodsmen. The individual is on his own most of the time and finds himself to be a hunter, who must hunt a game that can shoot back. Ross, Phillips, and others say that their boyhood days, spent roving the woods with rifle in hand, have been a definite help. Woodcraft, hunting instinct, calm nerves, and shooting ability are the attributes needed. Once again, traditional American skill as a woodsman, as a hunter, and as a marksman, is predominant in the fight. ♦ ♦ ♦

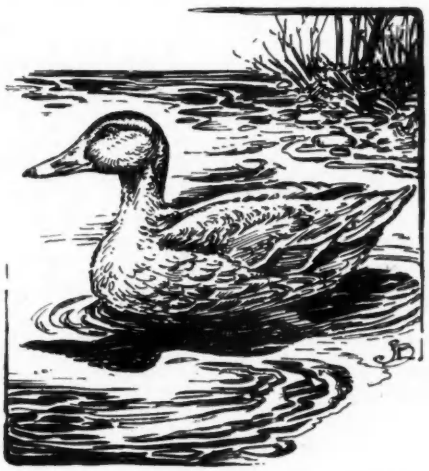
A Rationed Hunt

(Continued from page 7)

at the end of the lake, fully a good fifty yards from the gun.

I gave up the idea of using my 6's. I wanted to see this business of using small shot on ducks out to a reasonable conclusion. There must be something screwy about the consistent kills I was making. It just wasn't in the cards for snipe loads to take ducks so cleanly!

A flight of six teal came in, twisting and turning, darting low over the burn. They pitched into the water before I had a chance to shoot. When I stood up, they flushed wildly. I drove one shot at them as they leveled out. It was a miss. My second shot cut down the leader. Then they were beyond range. A single sprig came in behind them, and I dropped it with my remaining shot.



I reloaded and waited half hour before any more shooting came my way. Plenty of ducks were going over, but they were all too high.

Then the pond looked inviting to a flock of mallards. They circled low and swung upwind. I dropped two as they skimmed over the water, though one of these fell wounded and required a second shot. While I was picking up my kill a lone greenhead came in close. As he flared, I killed him neatly at about twenty-five yards. I had my limit—and with small shot!

When a hunter has acquired a theory about the proper shot to use on certain game, and when he has nursed that theory over a period of years, it is a shock to have it so roughly handled! My limit of ten ducks was taken with thirty shells. Looking back over my duck shooting notes, I find that this is better than my average prewar shooting. But, of course, that doesn't tell the whole story. In those days, when shells were easily obtained, I took longer shots. And a lot of that shooting was in marshes where other gunners shoved the ducks upstairs by blasting away at everything which came over, regardless of range.

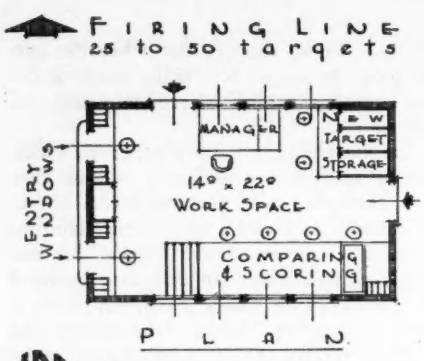
But killing ducks so consistently with light shot makes one question *some* of the theory, all ranges and other factors to the contrary notwithstanding! When a 20 gauge kills cleanly at forty to forty-five yards with small shot, heavier shot can't do a whole lot better!

I think a gunner is apt to attribute clean kills to a certain size of shot when the real reason for his success lies in the fact that he was using a load well matched to his particular gun. And that is a fertile field for the dogmatic statements one so often hears about the proper shot for ducks. I have made them myself. "Fellows, 6's are the only load for ducks!" George, on the other hand, figures that a fellow had just as well leave his gun at home as to be caught in a duck blind without 5's. Why? Because his old double-barrel throws a wonderful pattern in this size. Henry manages to keep himself supplied with ducks, using a 20 gauge throwing an ounce of 7½'s. He will cite you verse and chapter on the merits of this combination. It's a good load for his gun.

But a lot of the duck-hunting fraternity are discovering that their scatterguns were more versatile than they supposed. While a gun usually has one "best" load, it is a rare gun indeed if it will not turn in a good performance with some alternate loading. A gun throwing a good 70 per cent pattern with 6's may give a nice 55 per cent pattern with some other shot size. Thus, one may have a full-choked gun and a modified, all in the same barrel. And if any merit is to be found in the wartime restrictions on ammunition, it is right here. A lot of our opinions on the proper shot sizes for birds has been more a matter of habit rather than of rationalization.

But we die hard, we hunters! Despite the evidence of clean killing with smaller shot, we look forward to the time when we'll have a couple of boxes of good old 6's in the tail of our hunting shirts; or maybe it's 5's. It all depends on what size your gun handles.

(But I still think it is 6's for ducks! Doggone it, 6's and ducks just go together!) ♦ ♦ ♦

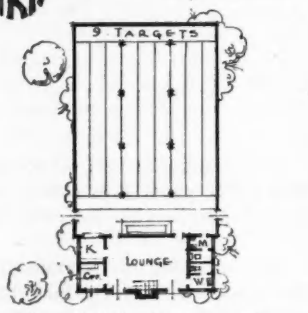


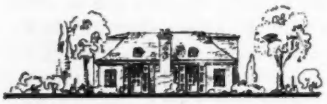
Minimum Requirements For a Range House — (Small Bore)

N

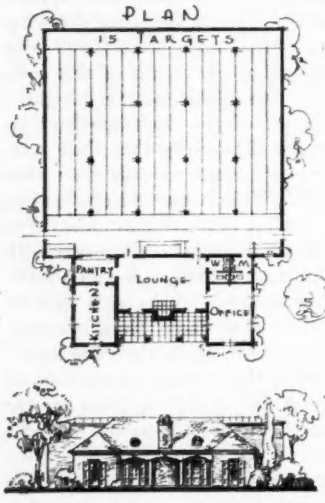
OUTDOOR RANGE CLUBS

NRA





Development of the minimum indoor range of 9 targets into a complete club of 15 targets with lounging and refreshment areas.

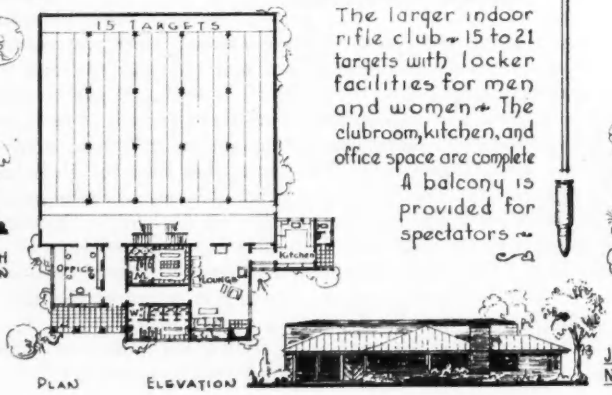


FACE LIFTING

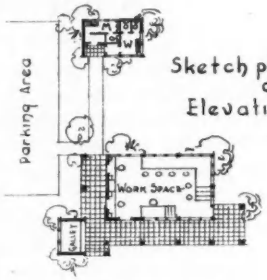
It is plainly evident that the sport of target shooting—rifle and pistol—is scheduled for quite a "face-lifting" operation when the war ends. Even before Pearl Harbor the rapid spread of Registered Tournament shooting had resulted in tremendous improvement in target *range* facilities all over America. Grassed and covered firing lines and lawn-like ranges were becoming the expected, rather than the unusual, thing for the small-bore shooter. Concrete or carefully graveled and covered firing lines, electrically operated targets, central fire-control stations with modern loud-speaker equipment were rapidly supplanting the lumpy, uncovered firing lines and creaky, uncertain target installations once "standard" for the pistol game. Both men and women were shooting in sports clothes which were a far cry from the grimy, battered outfits once accepted as "good enough" garb for the target range. The whole atmosphere of the ranges had changed for the better. And with the improvements in comfort and appearance came a constantly increasing interest in the rifle and pistol game on the part of Mr. John Q. Citizen and his family.

The next step will be in the direction of improvements in *clubhouse* facilities. Despite the improvements which have been made in *range* facilities few clubs have improved their statistical offices to keep pace with the increased attendance at Class "C" tournaments. Even fewer have provided for members or guests. Requests for complete range layouts including clubhouses, parking areas, range plans, indoor ranges and landscaping have been coming into NRA Headquarters in increasing numbers. Many of them indicate that target ranges are to be installed in municipal and county park areas as a part of the "reconversion" projects of local governments.

An architect has been added to the NRA staff to prepare model layouts and to work directly with local clubs and city engineers in the design of attractive, efficient, modern clubhouses and ranges. The sketches on this page indicate the type of clubhouses which will be described in detail in subsequent issues. Complete working drawings will be available for each suggested layout. Watch these pages for inspiration and details of "face-lifting" operations within the limits of your own budget, on your local target range.

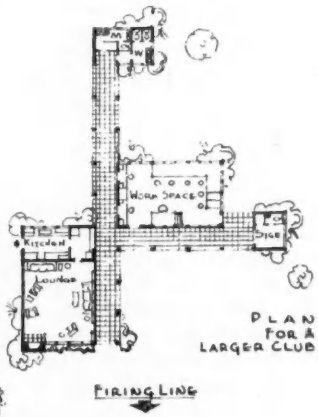


The larger indoor rifle club — 15 to 21 targets with locker facilities for men and women — The clubroom, kitchen, and office space are complete A balcony is provided for spectators —



Ideas for the development of the given minimum requirements into a complete outdoor club including facilities for lounging and refreshment.

Sketch Elevation



FIRING LINE

SMALL BORE INDOOR RANGE CLUBS

JAMES L. MURPHY, JR. DESIGNER
NATIONAL RIFLE ASSOCIATION 9/9/44

Is it true that this gun—
the Smith & Wesson Safety Hammerless New Departure—
needs only proper stocks to be

The Perfect Defense Gun?

By ED BRIDGMAN

HANDGUN MANUFACTURERS undoubtedly know, as shooters do, that individually fitted stocks make a tremendous difference in the handling of a gun. But it is obviously impractical for the manufacturer to supply a different handle on every gun sold and I feel, personally, that it is reasonable to leave it to the shooter to provide his own special stocks, if he wants them, for a gun that will last him a lifetime.

Many guns, some of them not too well liked by the super-discriminating handgunners, can be turned into sweet-handling and highly efficient weapons simply by restocking them to fit the hands and the needs of the individual shooter. Bob Nichols reported last year in *Field & Stream* on his experiences with a Colt Detective Special fitted with special stocks. I have one of these guns and had found it a real terror to shoot; but when stocked as Nichols advised, it became an entirely different gun, a natural pointer, comfortable to shoot even with the heavy loads. In fact, it is now one of my favorite guns—*almost* the last word in defense guns.

I say almost the last word because my own experiments have convinced me that, *for me,* the absolute tops in a perfect defense gun is the almost forgotten S. & W. Safety Hammerless, also known as the New Departure, in the .38 caliber.

I had long been interested in this gun and, after trying out Nichols' ideas on the Detective Special, I had Walter Roper design and make for my New Departure the stocks shown in the picture. The result is the nearest thing to a pocket defense gun that I have ever shot or seen. For years, this gun has been relegated to the family of "bureau-drawer specials"; but there is a distinct surprise in store for anyone who will give it an opportunity to show what it will do.

There are several reasons why the S. & W. New Departure Model can be the ideal pocket handgun for defense. To begin with, it has the only real double action to be found on any American revolver. It was designed for double action and can be fired no other way. The trigger is correctly shaped, and is in the best possible position for double-action firing. A distinct pause occurs when the hammer has reached its full-cocked position before it is released to fire the cartridge. The hammer fall is extremely quick and without jar and, with very little practice, one can actually operate the arm like a single-action weapon.

With this pair of stocks, the value of the special double action really shows up. There is no movement of the muzzle whatever when the trigger releases the hammer.

At fifteen yards, which seems to me to be plenty long enough for good defense range, it is no trouble at all to bunch the five shots, shooting fast, in a four-inch circle, with no flyers. Even with the heavy load in this very light gun (weighing only eighteen and three-quarters ounces), the gun seems to be locked fast to the hand, ready for the second and succeeding shots the instant it is snapped back onto the target.

In the point-and-shoot-without-aiming method of fire, this gun really puts its shots where you look. It is a real instinct-pointing, double-action defense gun.

Being without an outside hammer, it can be fired from the pocket if necessary. Fired in this manner, it would be just as hard on the coat as any other gun, but it cannot jam and there is nothing to catch anywhere in fast drawing. It is of the break-open type and automatically ejects the fired cartridges, so it can be reloaded and returned to firing position in the shortest possible time.

No blow or fall can discharge the gun accidentally, as the hammer is locked in its safety position until it is released by the trigger.

This delightful little gun is made in two-inch, three and one-quarter-inch, and four-inch barrel lengths and is adapted to a variety of cartridges. While my experiments were confined to the use of the plain lead bullet, it will accommodate the full-metal-patched, metal-tipped, or the .38 Colt New Police cartridge.

Now, I realize that when a person calls something perfect the first thought that comes to the argumentative type of mind is, "Isn't there *something* about this thing that could be wrong, or something about it that is not just perfect?" In this case, there is just one thing that could be less than perfect and that is the firing pin. Understand, my firing pin did not break and I cannot point to any New Departure in which this trouble did occur. But after examining every part of the gun, and from previous experience with firing pins, I came to the conclusion that the one potential weakness in the New Departure (other than the factory stocks) was the firing pin—so I replaced mine with one made of beryllium copper. I am sure *that* will never break, and I am now satisfied that my New Departure Hammerless is "the perfect defense gun." ♦ ♦ ♦

Official U. S. Army photo.

THE COVER

This month's cover is a nearly perfect example of the picture composition required by our unusual cover format. Note that picture is vertical, and that it has sufficient left-side background for our title strip. . . . Military kodachromes are available from Service sources; but suitable kodachromes of civilian shooting subjects are scarce! Why not submit *your* best films of such subjects for possible use? Remember the requirements mentioned above. . . . And, please, no pictures of dead game!

Why the Shotgun Scope?

By BILL McCANDLESS

I AM NO STRANGER to a glass eye on a shooting iron. In the gun cabinet yonder stands a .270 Winchester with a 330 Weaver scope, and a converted Krag .22 Hornet and a little Model 57 Winchester plinking gun, both with scopes —and a heavy-barreled Model 52 target gun mounted with one of Fecker's fine precision 10X jobs. I'm thoroughly sold on the advantages of a scope on all of these guns and have done a very great deal of shooting with them to my entire satisfaction. But, the idea of putting a scope on a scattergun never made much sense to me—until I tried it.

One Sunday morning, while I was tinkering about the shop putting in a few finishing licks with a paintbrush on a dozen canvasback duck decoys, up drove one of the boys with that cat-and-canary look on his pan. He said, "Look, Bill." And there it was: a brand new Model 12 Winchester pump, 12 gauge, and, snubbed on top of it, a Weaver scope.

I was all primed to say something, but Dick beat me to it. "Before we have any weighty sarcasm," he said tartly, "suppose we try it."

So we did. A couple of flickers were fooling around us and, as one winged by, I tossed the gun up and took a look. Lordy! Did that bird loom up pretty through the glass! I followed its swooping flight with no trouble at all and mentally figured the right lead. Next, I tried following a little finch that flew by and found that the little bird was just as easy to catch in that scope as the larger one had been. Finally, I glimpsed a late lingering butterfly and picked up that winged mite in the glass without a bit of trouble.

"Okay," I said. "Let's break out some blue rocks and the hand trap."

Dick insisted I try the first shot, so I plugged in a shell and told Dick to cut loose. He didn't give me the easiest bird in the world. The blue rock sailed low and fast and quartering to my left. I swung on it and there that blue rock was, sitting, fat as a goose, in the scope. I swung the center dot out ahead just a trifle and, as the gun bucked in recoil, I saw the target turn to a puff of dust.

"Well," said Dick, "what do you think?"

I said, "Might have been an accident. Try another."

The next bird Dick threw was one of those foolers, one of those straight-away, steadily climbing babies that look so easy and *are* so easy—to shoot under! I put the center dot just over the target and got another puff of dust.

This was before the curtailment of ammo, and we went through a whole box of shells, shooting a couple, then throwing a couple for the other guy. No, we didn't break them all, but we did break most of them. And when I got a miss, *I knew why I'd missed!*

So many times, after missing an easy shot in the field, I've tried to figure why I missed—and I never was entirely sure. But with that scope, I knew! For the first time in my life I had the feeling that I was actually spotting and calling my shots with a shotgun. When that center dot was in the right place in relation to the target, I got a pulverized rock. When it wasn't, I didn't. A couple of rocks that I just scratched, that I got with the very edge of the shot pattern, were shots I could have called beforehand, had I had time. The center dot was definitely in the wrong place when I shot, and I knew it.

Well, the upshot of it all was that, while I didn't put a scope on my own shotgun right away, I did a heap of thinking about it. I was not entirely convinced that the acquisition of one would up my average on ducks, doves, pheasants, etc. I went through the following duck season without one and I missed a lot of shots that I shouldn't have missed and I grew an extra wrinkle or two trying to figure out why. Most of those misses were hurry-up shots, at birds which caught me a little off balance, or which were in to the decoys and gone again so quickly that it was a case of snap and shoot or not shoot at all. Even so, there were times when I could have sworn I had judged the shot right, that the lead was correct and everything timed. . . . But no bird.

Then one day I was out in the skiff to run down a cripple. Three sprig bounced up out of a pothole in the tules. Two of them were close together, the third a trifle below them and about three feet to the left. I snapped at the two, with momentary visions of a one-shot double. And I killed the lone one, stone-dead in the air!

For a time I was one completely bumfozzled hunter. Maybe I was getting cross-eyed, or maybe the little 16 gauge double had gone haywire. But it wasn't either of these. I was cross firing, because I wasn't cheeking the gun firmly on those snap shots.

This set me to thinking about a scope again; thinking how, if you guided that center dot right, you didn't need to worry about anything else. So I got one and put it on the open set of barrels. And went to town with it! The first time I shot doves with that combination *(Continued on page 24)*

"They said I couldn't hit the broad side of a barn. Boy, did I show 'em!" . . . . "Yeah? And where did you hit the bull?"

GERMAN SNIPING EQUIPMENT

By SERGEANT R. F. DUNLAP

JERRY HAS A VERY NEAT sniping outfit, as witness the picture reproduced herewith. As to his use of the scope-sighted rifle, apparently some Nazi brass hat read "A Rifleman Went to War" and acted accordingly. The Jerries usually work in pairs, rifleman and observer, moving frequently, seldom firing more than a very few shots from one position, picking targets (officers, runners, observers, etc.) with care, sometimes passing up scouts and patrols in favor of chances at the personnel to follow.

The scope-sighted sniper rifles I examined appeared to be standard issue and not of any special manufacture. Since the Germans are seldom stupid about weapons, it is pretty safe to assume that only tested and accurate models are picked for sniper use with telescopic sights. Here's the equipment: The standard rifle, Mauser Kar. 98K, which is our old friend the Mauser 98 cut to Springfield dimensions, with turned-down bolt handle. The barrel length is 23.4 inches as compared with the 23.79 inches of the Springfield. The weight is "approximately nine pounds," meaning it may vary eight ounces either way. The caliber is the usual 7.92 mm. (.31 caliber, our designation). The sling is leather, seven sizes, seven-eighths inch wide, adjustable for loop use by disengagement of the butt end, and fits on the left side of the rifle.

The standard rear sight—100- to 2000-meter open V-notch, slide-tangent type, no windage—is removed, along with its base which is the tangent ramp, to allow mounting of the scope mount base, which may be zeroed for windage. The rifle stocks made since 1940 have been of a light-colored, fairly hard wood, apparently beech. They are strong and satisfactory, though the Nazis adopted a cup-type buttplate which fits over the end of butt for added protection against splitting. That cut through the butt for the sling doesn't help strengthen it either. As for the metal aperture fitting through the buttstock, it has a variety of uses: container for firing pin when taking down the bolt; means of attachment for locking in racks, mounting in vehicles for carrying, etc.

Gun cleaning in the German Army is a chummy affair. Each rifle has a third of a rod in the fore end, so you find two other guys and get together. However, each soldier is equipped with a metal cleaning kit, on the order of a pocket pipe tobacco can, containing an aluminum-link pull-through, brushes, oil, and wiping material. Their brush is combination brass and bristle, having a brass section between two bristle sections. (It is my firm opinion that the German rookie spends his first six months in the army learning how to get this outfit back in the can!)

The scope is five and three-sixteenths inches long without sunshades; six and one-eighth inches with sunshades. It is approximately one and three-fourths power, not over two-power. It has a picket post and cross-wire reticule, and internal adjustment of elevation only (apparently windage is zeroed on the base and left alone). The sunshades are detachable and reversible, snapping into position by means of a spring. Both shades have small rectangular "windows" which may be for admission of light, since they may be rotated freely. The luminosity, I'd say, is around thirty-five. Now comes the shock: the eye relief of this scope is fourteen inches to eighteen inches, by actual measurement!

Optically, this telescopic sight is nothing to get excited about, excepting the unusual eye relief and the small size. It has a very small field for its low power and the glass is nothing extraordinary, though good. The lenses are very small, as tube diameter is only nine-sixteenths inch on body, and one-half inch in mounting bracket cuts. As near as I can measure, the objective diameter is thirteen thirty-seconds inch; ocular, seventeen thirty-seconds inch. The enlarged objective end of the scope is misleading—the lens is small. Adjustment is made by rotation of the large knurled collar about the body of the scope, which is locked by a spring detent system. It is graduated one through eight by number on detent cuts, with unnumbered halves also detented. I believe this indicates range in hundreds of meters, as the space between detents increases as numbers go up. The scope bears no maker's name, only serial and model numbers. No alloys are used; the whole outfit—scope, mount, and base—being made of steel. It is customarily carried in a fitted, metal, dustproof container, with lens brush and a cloth.

The mount is a quick-detachable bracket type, T-slotted for base, attached by sliding forward, and held by a spring catch and two spring-loaded plungers which engage in cuts in the base. I was unable to obtain a base, so can't show any detail in the photo. The mounting is low enough to permit satisfactory use of service stocks, and of course clears the receiver to allow clip loading. This is a very strong and rigid mount. The whole idea seems to be to provide a really serviceable front-line weapon, suitable for use under nearly any weather conditions and capable of taking the beating any military weapon must expect. The single fault I find is that it is strictly a scope rifle, although it is possible to see the front sight under scope well enough for close-range snap *(Continued on page 20)*

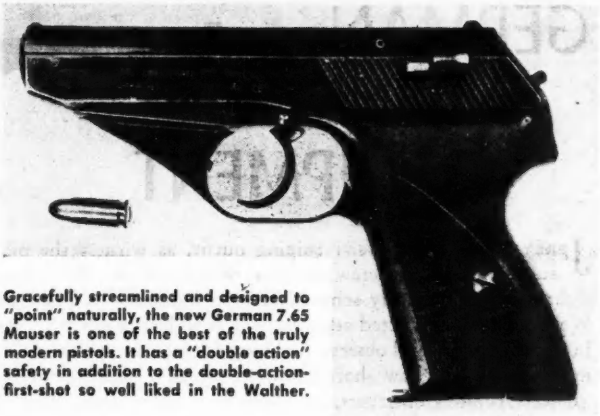
HIGHEST MUZZLE VELOCITY

(Translated at the Command and General Staff School from a German article in the Swiss *"Neue Zurcher Zeitung."*

The highest speed at which a projectile was ever fired, 2,790 meters (9151 f.s.) per second, was attained and measured in Berlin in 1938 by H. Langweiler. As an experimental weapon, Langweiler used an 8-mm. gas-pressure measurer with a one-meter barrel, corresponding to a length of 125 calibers. He chose a regular nitrocellulose flake powder of 950 kcal/kg (kilocalories per kilogram), whose combustion rate had been increased to a maximum by a surface treatment. In all the trials a constant quantity of eleven grams (169.73 gr.) of powder was used while the weight of the bullet was steadily reduced from an initial weight of 12.85 grams (198.3 gr.). In this manner, with a bullet weighing 3.1 grams (47.84 gr.) he was able to attain a velocity of 2,000 meters (6,562 f.s.) per second and finally, with a bullet weighing but .25 grams (3.85 gr.), corresponding to a propelling charge weighing forty-four times more, he was able to attain the highest muzzle velocity of 2,790 meters per second with a powder gas pressure of 12,000 atmospheres (176,400 lbs. per sq. in.).

New Automatic Pistol Designs

By W. H. B. SMITH



Gracefully streamlined and designed to "point" naturally, the new German 7.65 Mauser is one of the best of the truly modern pistols. It has a "double action" safety in addition to the double-action-first-shot so well liked in the Walther.

The New Mauser H Sc

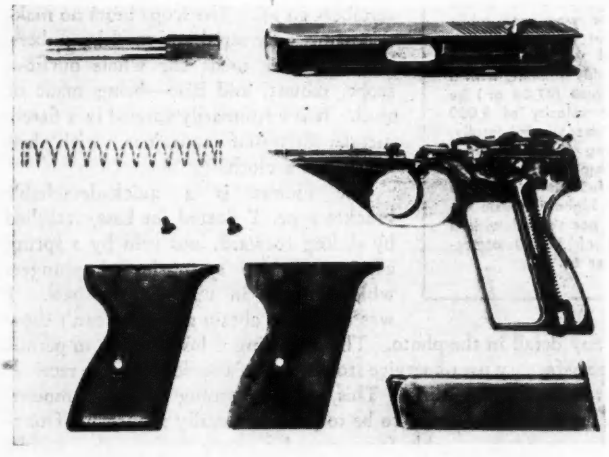
THE DOUBLE-ACTION Walther P. 38 Automatic Pistol described in some detail in THE AMERICAN RIFLEMAN many months ago has attracted more attention from soldiers, pistol enthusiasts, and collectors than any one-hand arm since the Colt Company introduced the Government Model .45 way back in 1911.

More recently, the Heinies have put into extensive field service two new types of double-action autos which are certainly worthy of the close attention of our handgun makers—as well as that of any of the big business organizations which, rumor says, are contemplating staying in the arms game after the war.

First, let us consider the Mauser "H Sc"—German abbreviation for "hammer, self-loader." Here is streamlining with a vengeance! Yet, with a three and three-eighths-inch barrel and an over-all length of only six and one-half inches, this weapon is no heavier than the standard pattern of 7.65 mm. (or .32 Colt Auto).

In most pistols of recent design, the tendency has been to use the regular straight up-and-down metal grip covered with a molded stock shaped to pitch the gun for better instinctive pointing. This is true of the P. 38. In this new Mauser, however, the receiver metal itself is forged to the proper lines, and the stocks are merely built to fit it.

The weight distribution is unusually good, and the sights are adequate for field or pocket use, styled to prevent snagging on pocket or holster. The hammer is unusual in that most of it is protected by the slide to prevent hanging up in a holster and also to prevent damage from dropping or striking against solid objects while being carried at the ready in field service.



Quick, simple takedown is one of the features of the new Mauser. Note shaping of breech end of barrel to fit slide; also, lugs which mount barrel on receiver. Note extreme length of receiver guides to compensate for otherwise loosely mounted barrel. Slide is always in close alignment. Note also shape of hammer, design of grip, and trigger bar.

The hammer may be brought to full cock by pulling the slide back in the customary manner, and it may be safely raised or lowered by the thumb. A positive thumb safety is mounted on the left side of the slide. Pushing it down effectively prevents the weapon from being fired. It has, of course, a positive disconnector which prevents more than one shot being fired for each pull of the trigger, and it is equipped with a simple magazine disconnector which prevents firing the weapon when the magazine is out of the pistol.

The takedown is simplicity itself. Pushing a small spring-loaded piece inside the trigger guard just in front of the well-curved trigger, you maintain pressure and pull the slide back a short distance. The slide is then moved slightly forward and lifted off the receiver bringing with it the barrel and recoil spring—as well, of course, as the extractor and firing pin units which are mounted in the breech end of the slide. Removing the stock screws and lifting off the stocks exposes every moving part for inspection. The magazine catch and the hammer and firing mechanism work off a simple coil spring-and-plunger unit. The trigger bar mechanism consists of stampings which are cheaply made and entirely adequate, since they are completely covered by the stocks and the slide, but which seem strangely out of place in a weapon which in every other manufacturing detail is up to the Mauser prewar (which is to say, the highest) standard.

The barrel is mounted on the receiver, supported by two bottom lugs, and is shaped at the breech end to fit snugly into the slide. The recoil spring is fitted around the barrel, being compressed by the collar at the front end of the slide, as that member drives back in the receiver grooves under the force of recoil, against the shaped reinforcement at the breech end.

This weapon is a straight blowback type in which the slide is pulled back by hand to compress the recoil spring and clear the top of the magazine. The magazine spring pushing against its follower forces the cartridges up so that the first one is in line with the breechblock end of the slide. Releasing the slide lets the spring pull it forward to strip the cartridge into the firing chamber and close the breech.

If the hammer is now lowered by the thumb, the pistol can be carried in entire safety with a cartridge in the chamber. If it is necessary to fire in a hurry, pulling the trigger will draw back and trip the hammer to strike the firing pin. Should the

cartridge misfire, pulling the trigger again will usually fire it.

Aside from its sleek design, excellent balance, and good trigger pull, the Mauser H Sc is noteworthy for its simplicity of takedown, ease of cleaning, and double-action safety features.

The New Double-Action Sauer

As an advanced form of pocket pistol, the Sauer M 38 is so far ahead of anything on the world market today that comparisons are odious. This pistol has all the special features of every modern weapon plus a number of entirely original designs.

A glance at the identification photo will give an idea of the well-shaped but not exaggerated grip design. Here again the grip section of the receiver itself is forged to the proper shape, the stocks being of plastic, molded to protect moving units mounted in the receiver.

The top of the slide is beautifully ribbed and checked to take full advantage of the sights themselves for accurate shooting. A removable radium sight for night use is sometimes supplied. This can be snapped easily on or off, and is remarkably effective in centering on objects in haze or poor light.

The thumb safety is one of the simplest, sturdiest, and most effective ever developed. Inside the slide, there is a solid steel bolt notched to permit the hammer to pass below the steel when the safety is off. When the safety is thumbed down, it revolves the bolt so that the solid surface first blocks the hammer, then forces it back so it is clear of connection with the sear and entirely removed from influence by the trigger.

The magazine catch is of the positive lock type and is mounted on the receiver just behind the trigger guard. (Note: Official German Army reports show a preference for bottom magazine catches because of magazines being accidentally dropped when the release is a receiver-mounted push button.)

Directly above the magazine catch, a thumbpiece is visible. This is a most unusual feature of this weapon. As in the case of most auto pistols, the slide must be pulled back to feed the first cartridge into the firing chamber. (Exceptions such as the Le Francais Pistol, where the barrel may be tipped up to insert the cartridge and the weapon then fired double action, are very few.) Pulling the slide back customarily also cocks the hammer or striker.

With the Sauer, if it is desired to lower the hammer safely and carry the pistol with a cartridge in the chamber ready for instant action, pushing down on this thumbpiece, which is pivoted on the receiver under the stock, will trip the sear and let the hammer down without hitting the flying firing pin. When it is released, a spring will pull the thumbpiece back to its original position.

A pull-through on the trigger will draw the trigger bar forward to cock and fire the first shot. The slide blowing back, of course, will cock the pistol for successive shots. In case of misfire, pulling the trigger through will drive the firing pin against the primer for another try.

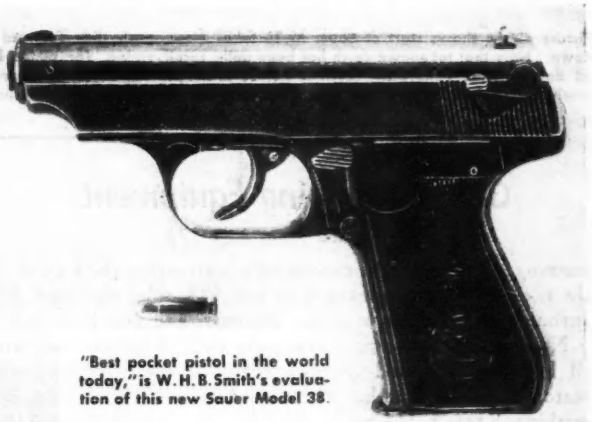
A unique feature of this thumbpiece, however, is that when the hammer is down it may be pushed back to full cock to allow a light trigger pull for the first shot by simply pushing down and releasing the thumbpiece. This thumbpiece moves only when you push it. It does not act with the action itself.

Picture 2 shows the start of the takedown. The magazine is removed and the pistol cocked. The latch set snugly in the receiver just ahead of the trigger is pulled down to unlock the slide. The slide is then drawn back until it clears its guides, lifted up, and pushed forward off the barrel.

Picture 3 affords a clear view of how the recoil spring is positioned. Another unusual feature of the Sauer M 38 is the mounting of the barrel which is rigidly sweated into a breech which is part of the receiver forging, and is not intended to be removed. This rigid barrel gets more accuracy out of the weapon than any other blowback weapon of this caliber I have ever seen. Note also in this photo a small tit, spot-welded on the receiver about an inch from the top. When the magazine is in the handle, this tit pushes the trigger bar up where it can complete the firing circuit. When the magazine is withdrawn, the bar is thus out of engagement and the weapon cannot be fired. This eliminates the danger from a cartridge remaining in the chamber.

Picture 4 shows the receiver assembly with particular reference to the thumb-cocking device and the coil mainspring, as well as receiver and stock detail.

To sum up, this Sauer M 38 has all the advantages of a concealed hammer, plus all the advantages of the exposed hammer, thanks to its manual cocking system. (Incidentally, to show the value of research and again establish that nothing is ever entirely new, an outside hammer cocking device of this general type was used on several early American shotguns!) It has an ultrasimple takedown system. Its parts are all sturdy and thoroughly machined. The safety systems, both manual and built-in, are simple and efficient. Sighting equipment and potential accuracy from rigid barrel are also advantages.



"Best pocket pistol in the world today," is W. H. B. Smith's evaluation of this new Sauer Model 38.

Small Arms Research

The Spanish have successfully worked out unlocked blowback pistols to handle such terrific cartridges as the .38 Colt Super Auto, the 9 mm. Steyr, and the 9 mm. Long Bayard. (The Astra pistol, to mention just one, handles *all* these cartridges safely and satisfactorily.) Weapons for police and target work embodying the features of the Mauser H Sc and Sauer M 38, built to take powerful loads, are quite feasible.

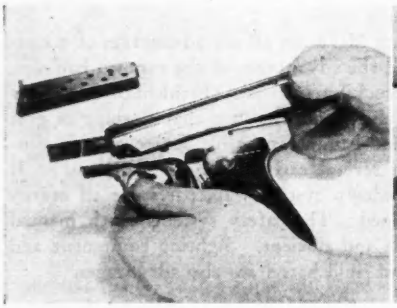
The most popular and widely used pistol and submachine gun cartridge in the world today is the 9 mm. Luger. It is used to some degree by every nation in the world except ourselves as an official cartridge. Its loads run all the way from 960 feet per second, as used in the Italian Glisenti Pistol, through 1,475 feet per second, as manufactured for use in Sten Guns by the British, to close to 1,600 feet per second in some German loads tested. Revolvers have been built to use these cartridges in half-moon clips like the familiar .45 Auto revolver clips.

But why not produce a *modern* pistol for these cartridges? And why not a *modern auto pistol* to shoot the *.38 Special revolver* cartridge? If my mail is any criterion, the first up-and-coming manufacturer to develop such a weapon will find a surprisingly large market, both domestic and foreign.

The kinks have certainly been taken out of the functioning of rimmed cartridges in .22 autoloaders. And the Reifgraber Auto Pistol, manufactured some thirty years ago at Toledo, Ohio, handled the .32 and .38 S. & W. Revolver cartridges from a magazine which fed very well indeed.

As this war reaches its European climax, we find the enemy still developing and field testing in a frantic endeavor to offset our enormous production. Fine German 88's are followed by improved 88's. The MG 34 is followed by the mass-produced MG 42, which is now being followed by superspeed machine guns, some with electric primer firing devices. MP 34 Bergman Submachine Guns are followed by MP 38 and MP 40, the Schmeisser Submachine Guns our troops call "zipper pistols." The semiautomatic Gewehr 41 gives way to the newer gas pistol Gewehr 43. The Luger is followed by the double-action Walther, the Mauser H Sc, and the Sauer M 38.

If, at the close of this war, we again sit on our arsenals and freeze our designs so we are "ready" with last war's weapons—well, you fill in the rest of that picture! But if research is continued and intensified in all fields from small arms up with our manufacturing capacity, we have little to fear. Let's hope the coming year will show that our arms designers are aware of their responsibility to the future. ♦ ♦ ♦



Picture above shows start of Sauer M 38 takedown. Note that takedown catch has been pulled down. Slide pulls back to clear guides in receiver, can then be lifted out of engagement.

Next, push slide forward off barrel. Note position of recoil spring, for which barrel acts as guide. Breech is part of receiver forging. Note trigger bar, and tit on magazine which pushes this bar up into alignment.

Picture shows the pistol field stripped. Note the thumb cocking mechanism; also the moulded stocks. Parts are all sturdy and well machined. Safety systems are both simple and efficient.

German Sniping Equipment

(Continued from page 17)

shooting. This could be considered countered by the fact that the telescope may be mounted on any 98K rifle, anywhere, by anyone who has a screw driver, hammer, and punch or drift.

Now we come to ammunition, especially bullets. They are all long boattails, and compare with the Western 180-grain Match bullet for length. There is a ball bullet, 196-grain, no marking; a tracer, 156-grain, black tip; an armor-piercing, 178-grain, green band on bullet about one-sixteenth inch wide in center of exposed section when seated; and finally, the "observation" bullet, an explosive pellet in the point, causing a flash and puff of smoke on striking, weight 167 grains. All of this bullet except the tip is black. The tip has a green band; the base shows plain lead. The pellet sometimes rattles inside the jacket, but, don't try to cut one open!

Jerry has variety—tracers in three colors, three varieties of armor piercers, a light-charge ball cartridge, a couple of incendiaries, and probably a few others invented lately. They all fit the rifle and the sniper may use any he thinks appropriate—ball or armor-piercing for personnel, tracers or the incendiary-explosive types to mark a spot for the attention of his buddies with the Spandaus or mortars.

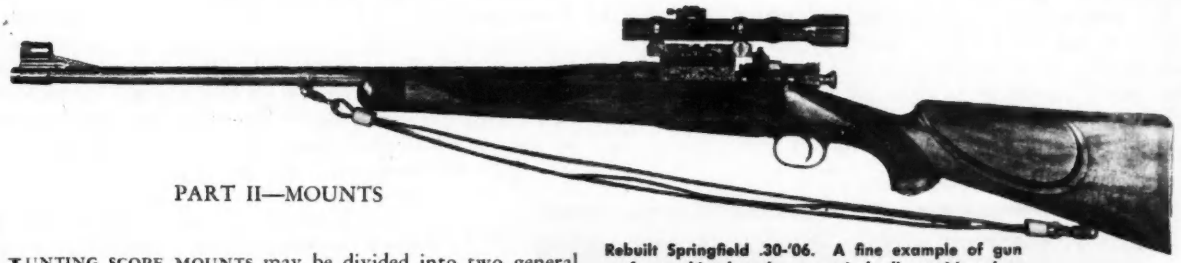
The hulls are brass, but bullets are steel-jacketed, plated with copper. A red band at cannellure simply means "tropical loading," i.e., for Afrika Korps. For the ball cartridge flake powder is generally used, being almost completely smokeless, but for other types a granular nitrocellulose somewhat similar to No. 4064 does the work. The cases are loaded to the neck, so expect a recoil around sixteen or seventeen pounds. Primers are, of course, Berdan type, and in this connection, a word of warning is in order. If you get hold of a Mauser, or almost any European military rifle for that matter, check your firing pin protrusion before you take it out to the range—it may be much too great for use with center-fire primers. A long striker on a Berdan primer doesn't matter much, but on an American primer, might result in a slight case of gas in the eye.

Among training aids is a neat .22 caliber adapter, consisting of a full-length rifled tube and a complete single-shot bolt action, which goes into any Mauser of the 98 series. Just remove the rifle bolt and shove in the adapter. Why this went to Africa, I can't figure out, unless some *Oberleutenant* was a small-bore shooter in his spare time. But there is good workmanship on this item, as on the telescope and mount. The only thing that has changed is the outside of rifle actions—they're not as well machined, polished, or finished since 1938.

I won't stick my neck out on accuracy of this sniper job, as I never had a chance to really group-shoot one. But the rifles are bedded tight, and barrels are of the familiar step-down taper. Jerry also uses three semiauto rifles, Mauser 98's in two other lengths, as well as Belgian, Polish, and Czech Mausers, and the Mannlicher-Steyr straight-pull (which isn't the old Austrian Mannlicher-Steyr straight-pull). I saw one 98K fitted with a Zeiss Zielvier in tunnel fixed mount, but believe that was some officer's pet, as it was strictly a gunsmith job. ♦ ♦ ♦

Hunting Scopes and Mounts

By ELMER KEITH



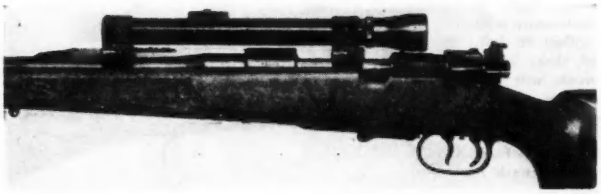
PART II—MOUNTS

Rebuilt Springfield .30-'06. A fine example of gun craftsmanship—but the scope is badly positioned to withstand heavy recoil, or for superlative accuracy.

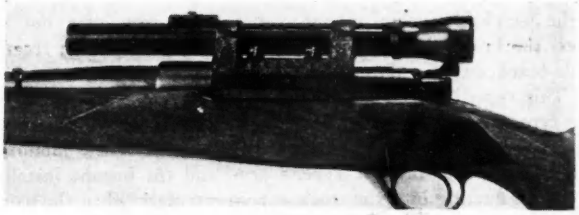
HUNTING SCOPE MOUNTS may be divided into two general classes: the detachable mount, and the fixed or permanent installation. They may be further classified by two general types of construction: the bridge type, and the side bracket.

For much of the big-game shooting of the West, we find the fixed mount just about perfect, especially for dry mountain country. Here, many hunters want a scope permanently mounted and then sighted in right for one load at a given range. They learn the trajectory of their rifle, how much to hold over for the long shots, and become deadly game shots.

Typical of this type of installation is the well-known Stith mount. It is solidly screwed to the barrel and receiver bridge

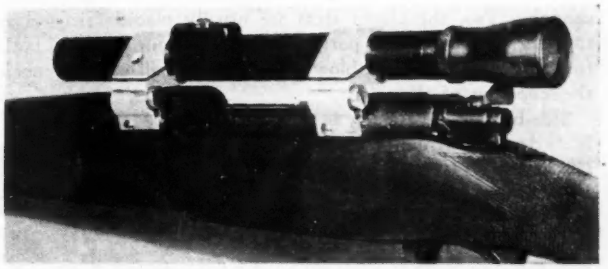


of the rifle and, with even reasonable care, gives excellent service. It is detachable with a screw driver only. The front section of the mount is a sleeve which fits snugly over the objective end of the scope and projects far enough past the end to act as a sunshade and to prevent light rain from spattering on the objective lens. The sleeve is screwed firmly to a fixed base mounted on the barrel of the rifle. The rear arm of the mount encircles the scope tube and is screwed to a fixed base on the side of the receiver. It also incorporates a good strong windage adjustment that can be set and permanently locked by a setscrew. All told, it is one of the finest of fixed mounts and the only one obtainable today. It will stand considerable rough usage and still stay in perfect adjustment.



Another fixed mount which permits the lowest possible top-of-the-barrel position is the O'Neil mount. This mount has a front scope band made integral with a barrel ring which is sweated to the rear end of the barrel and becomes a permanent part of the rifle. The top of the barrel ring portion is split and, by the aid of powerful Allan screws, forms a vise which clamps the front portion of the scope tube in place. This mount is made primarily for scopes with internal adjustment and windage. The rear portion of the mount is another scope ring with the bottom portion perfectly contouring the top of the bridge on the receiver and screwed permanently to said bridge by Allan screws. This rear ring is slightly larger than the diameter of the scope tube and does not touch the tube at all. A sheet of paper may be passed all around the tube between it and the scope tube. While it does not touch the scope, it does limit the amount the scope tube can be sprung before it touches the tube, hence protects the scope and prevents any chance of springing or bending the scope tube. The scope being clamped only at the front half of the mount, the heating of the barrel during long strings does not change the elevation in the least, as the scope is free to rise slightly as the barrel expands.

Iron sights are not available or interchangeable with either of these mounts; but for the man who wishes to use only the scope sight, they are perfect mounts. No installation is more accurate. The Stith is available now in both Install-

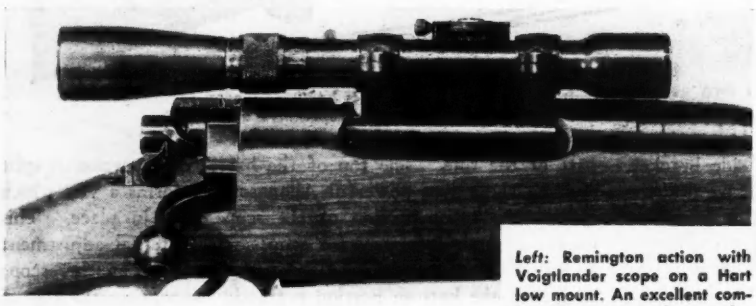


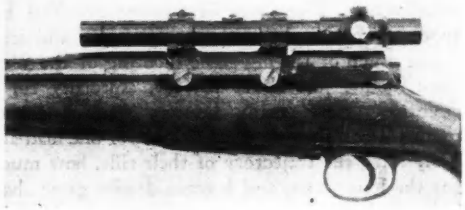
Left: A .285 OKH Mauser with Lyman Alaskan scope on Pachmayr mount Center: Winchester M. 70 with Lyman Alaskan scope on a Christy mount Right: Winchester M. 70 .300 Magnum, Lyman Alaskan on Universal mount.

It-Yourself and custom models, designed to mount a scope in any desired position. The O'Neil mount probably will not be in production until after the war. Both are bridge-type mounts, even though the front and rear parts are not connected in any way.

A Mauser action, custom-stocked by Pachmayr, with a Noske scope on side-bracket Pachmayr mount.

But fixed mounts do mean that the hunter can't change quickly to iron sights to meet unexpected hunting conditions—and, in spite of all the advantages of scope sights, there are times when the hunter is better off without them. In hard driving rain or snow, a scope sight can be a nuisance, even a hazard. The ocular lens must be kept dry or it is useless, and a sight that is useless can be definitely dangerous where dangerous game may be encountered. Perhaps I am overly concerned on that point because I have been in that very predicament. You want to be able to *see*, and you do *not* want to see the field of the peep or scope sight filled with beast and not know exactly what portion of him you are covering. To be able to use iron sights when they are needed and still have the scope available for those other shots where the scope is unequalled, you must have a mount that will permit instant removal and instant replacement of the scope. Hence the constantly increasing demand for the detachable type of mount.





Left: Remington action with Voigtlander scope on a Hart low mount. An excellent combination except that ocular lenses should be set further forward on rifles with heavy recoil. *Top right:* a Weaver side-bracket mount on a Remington 30S. *Bottom right:* a Remington .35 automatic with Weaver scope offset to left. Properly fitted, these better side-bracket mounts will give perfectly satisfactory service so long as they are carefully handled to protect the unsupported ends of the scope from bumps which might knock it out of adjustment.

Detachable mounts come in both the bridge or top-bracket type and the older, well-known side-bracket types. Personally, I am partial to the bridge type. This type, like the excellent Stith and O'Neil, permits a stronger type of mounting, eliminates all stock cuts, and will take a great many more hard knocks and still stay in adjustment than will the side-bracket type. The latter type of mount usually entails cutting into the stock on the left side of the receiver where the stock is already weak enough. Too, the clamp arms are usually placed fairly close together, leaving a good portion of the scope unsupported both fore and aft. Any hard blow on either end will usually knock the scope out of alignment.

Side-bracket types such as the Neidner, Griffin & Howe, Christy, Hart, Noske, and Type-T Weaver must have their bases milled to contour perfectly the side of the receiver before holes are drilled and screws fitted or they will work loose from recoil or occasional bumps. (I prefer bases sweated on as well as screwed.)

These mounts permit removal and replacement of the scope without changing the adjustment, and can usually be replaced perfectly if care is used in turning up capstan screws or tightening levers. Pachmayr also has a Universal side-bracket mount that permits rotating the scope up over the barrel for use of iron sights while the scope is still on the rifle. If this mount were made of steel rather than of aluminum, it would stand a great deal more abuse. It gives wider support to the tube than most of the true side-bracket types. However, I do not like aluminum on a rifle and believe all such fixtures should be of steel.

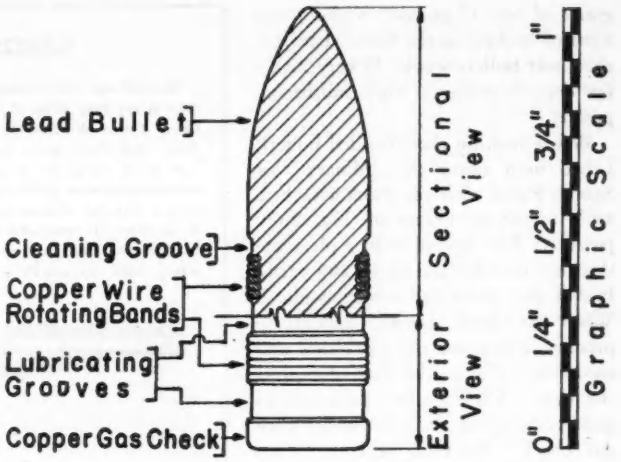
The Pachmayr Universal must be fitted by expert workmen or the front and rear bases and scope arms may not line up perfectly. Except for its material and with due regard for the necessary care in mounting, I much prefer this Universal mount to the usual side-bracket types. This mount has no adjustments whatever and is designed only for scopes with internal windage and elevation adjustments. These mounts permit having iron sights on the arm, and the instant installation of and use of a micrometer-peep rear sight when the scope is removed. With the Pachmayr, the regular open sights can be used instantly when the scope is swung up out of line. Do not, however, allow your scope to be mounted high for use of both iron and scope sights at the same time, or you will get very little satisfaction out of the scope. A scope so mounted is practically useless.

Another view of Keith's .285 OKH (see page 21), showing the scope raised for use of iron sights.

In my opinion, the best of the quick-detachable mounts, considering position, absence of stock cuts, and reliability, is the Turner mount, with the Redfield scoring a close second. Both are thoroughly reliable bridge-type mounts. The Turner is the only *(Continued on page 25)*

WIRE-BANDED BULLETS . . . .

By A. M. SCHNETZLER



TO RIFLEMEN WHO HAVE RELOADED .30-'06 cartridges with plain-base and gas-checked bullets of about .311 inch diameter for use in the Model 1917 Enfield and who have been disappointed in the results obtained, I suggest a trial of larger bullets; bullets with diameters of from .315 inch to .316 inch.

I tried at least ten different types of .30 caliber bullets, from .311 inch to .3125 inch, in my Enfield with disappointing results, and was just about ready to abandon the idea of using cast bullets in it. Then I decided to slug the bore with a soft .32-40 bullet.

The mikes gave a reading of .313 on bullets fired from this rifle when I was careful to catch the two opposed high spots of the slug. This is slightly difficult to do, as the five-groove rifling indents the bullet in such a manner that the high points of the slug are not exactly opposite. I had a 169-grain Squibb gas-check mold made up to cast a bullet to size .315 inch. This bullet loaded ahead of seventeen grains of No. 2400 powder, gave excellent groups up to 200 yards. The bore remained clean, with no signs of leading, after many rounds.

The Model 1917 rifle was originally designed to handle the .303 British cartridge with a groove diameter of about .312. The .311-inch cast bullets, which proved successful in our Springfield rifle for many reloaders, were subcaliber in the larger bored Enfield. Although metal-cased bullets of .3085 diameter, as used in the Springfield, perform very well in my Enfield, cast bullets as large as .3125 shoot very poorly.

About the time I had this reduced load working nicely, gas checks became difficult to obtain, so I cast about to find something to replace them. I experimented with bands of thin sheet copper, cut to fit in the grooves of the mold, to be inserted in the mold before filling; but these were too difficult to make with any degree of uniformity and I discarded this idea.

Having some 19-gauge copper wire on hand, I made a mandrel out of a piece of one-quarter-inch brass rod, several inches long, and with a slot in one end slightly larger than the diameter of the wire and about three-eighths inch deep. This mandrel is placed in a small vise, upright, with the slotted end projecting as far above the vise jaws as the slot is deep, plus the thickness of a close-fitting washer which is dropped down over the end of the mandrel to rest on the vise jaws. This washer will facilitate the removal of the band when the winding is completed, without distorting it.

Insert the end of the wire in the slot, close to the washer face, and take five or six FULL turns (depending on width of band desired) around the mandrel, keeping the wire reasonably taut. After the last turn, run wire through slot and break it off. Then, with a small screw driver, or similar instrument, pry up the washer, thus removing the band.

I then compress these bands in a die made out of a small piece of round stock, about one inch in diameter by an inch long, (cold-rolled will do) through which is drilled a slightly tapered hole, .316 inch in diameter at the small end. Placing one of the bands in the large end of the die and pushing it part way in with a close-fitting flat-end punch, I then place the die, punch, and coil in a fairly good-sized vise, backing the end of the die with a flat piece of steel, placed against one jaw of the vise, and with the end of the punch bearing against the opposite vise jaw. The vise is then tightened, with a stop or mark arranged so that all bands will be compressed uniformly to a predetermined thickness.

The bands should be of such diameter and thickness that, when placed in the mold grooves, they will fit snugly, yet small enough to permit the mold to be closed without undue force. A little experimenting with the compressing die will determine the proper size.

In casting the bullets, metal and mold should be a trifle hotter than for casting ordinary bullets, as some time is lost in inserting the bands between pourings. I keep the bands hot by placing them on a thin metal plate over a low flame. Bands are handled with a long pair of tweezers, from place to mold.

After the bullets are completed they are sized and lubricated, just as with regular cast bullets.

The alloys used in casting this banded bullet were quite hard: 86 per cent lead, 7 per cent tin, and 7 per cent antimony. A 90-5-5 mix can be used if a slightly softer alloy is desired. I used both and they performed about alike, as far as I could tell. I also experimented with some as soft as one part tin to sixteen parts lead, using as high as thirty-eight

SO YOU THINK IT'S NEW!

The gun pictured is a four-barreled "pepperbox," five inches long, two and five-eighths inches high, .32 caliber, rim fire, made by E. Remington & Sons, Ilion, New York, under Elliot Arms Company patents dated March 9, 1860. It has a ring trigger which rotates a concealed hammer which fires the four barrels in succession.

(These guns, and others only slightly different, were advertised for sale by Elliot Arms Company, 494 Broadway, New York City, as early as September, 1861. Yet their breech construction included the "sealed" cartridge-head feature which was a "new" development only a few years ago!—Editor.)

grains of No. 17 powder, without any signs of leading in the bore. I believe these soft bullets would do very nicely for deer shooting, as they mushroom greatly.

Before making these banded bullets, I had been using the ordinary cast Squibb bullet with gas check attached, with seventeen grains of No. 2400 powder. This proved to be a pleasant-shooting load for use up to 200 yards. It shot very clean and was economical. When gas checks became difficult to procure, I omitted the gas check and used one band in the groove nearest the base. These bullets gave just as good accuracy as the plain bullet with gas check. In fact, several groups made with banded bullet and NO CHECK were smaller than groups made with checked bullets. Later, we did some experimenting with heavy charges of the coarser-grained powders and found out that with thirty-eight grains of No. 17, one band would not hold the loads, so another band was added in the top groove, and a gas check attached to the base. So fitted, these bullets shot right along with the 172-grain B.T. bullet.

We also fired some of these bullets with two bands with the gas check omitted, to find out, if possible, whether or not any fusion of the bullet would occur. Of the few we were able to recover, we could find no indications of it, using a fairly powerful glass. Fusion can be prevented without gas checks by the use of cork wads cut from thin automobile gasket cork. To stay in place in the neck of the shell, the wads should be slightly larger than .30 caliber. They can be cut with a .32-40 wad cutter and can be used dry or lubricated. Personally, I would omit the lubrication of the wad, as there is plenty in the bullet grooves, and I prefer to keep the powder from contacting any grease, especially if cartridges are loaded for any lengthy period before being fired.

A slightly smaller or larger gauge wire could be used, but wire too small will buckle out into the hole of the band when compressed, and wire too large will reduce the size of the hole in the center of the band too much. Soft brass wire could be substituted for copper if the latter is not obtainable. If smaller or larger wire than No. 19 is used, the diameter of the mandrel upon which the bands are formed will have to be enlarged or reduced accordingly. ◆ ◆ ◆

GARRZOOKA

Ground squirrels abound where I am stationed and in my free time, it is my pleasant duty, as Camp Game Warden, to assist in their elimination. But there were problems involved.

A need arose for a short, light gun, with a medium-powered glass sight that could be carried in my jeep for chance shots. Casting about for a solution, I remembered my Tell Free Pistol (cosmolined and laid away "for the duration" along with my match weapons). It seemed to

me that the Tell, with some sort of a rifle-type stock, and with a 330 Weaver 4X scope somehow superimposed, would do the business.

I talked Johnny Pachmayr into mounting the glass for me, and after obtaining a carbine stock that had suffered a broken forearm, fashioned a buttstock myself. The set trigger, which has about a two-ounce pull, is a distinct advantage from an elbow rest, but I prefer the conventional two-pound trigger pull for running shots. Consistent clean kills can be made with ordinary solid-point .22 Long Rifle ammunition around eighty yards, and not infrequently I have made shots at distances that I don't believe myself!—Captain Mack G. Garr.

Why the Shotgun Scope?

(Continued from page 16)

I killed my limit with fewer shots than ever before in my life. I remember that I ran the last six birds straight, and there wasn't an easy shot in the six. There aren't many easy shots, ever, on those fast-flying illusive targets—as anyone who has ever shot them will agree!

On pheasants, the scope-sighted gun proved to be equally deadly. On ducks, I enjoyed one of my very best seasons. When I missed a bird I knew exactly why, for the sighting picture would be starkly clear. It would be from under- or over-leading, or from holding too low or too high, and I would know which one, the moment I pulled the trigger.

So now I have another Weaver shotgun scope on the second set of barrels for the little Sixteen, and I would not go into the field with a shotgun without a scope on it. I know of nothing that will teach a man the various lead and angle values so quickly and soundly. There is no guesswork about shooting a shotgun with a scope sight. The center of your pattern lands behind that center dot, regardless of how you hold the gun, or how you cheek it, or what your position is.

It takes a bit of getting used to, of course. That is to be expected. But once you do get used to it, you'll find it fast and deadly. And if you look through it and use that center dot as it is intended to be used, you'll do no more cross firing.

One reason, the main one, so far as I can discover, for the use of a raised rib on a scattergun, is to get a truer sighting base. With a scope on your gun, you can forget a raised rib. Sighting is easier and quicker because, as with all scope sights, everything is on one focal plane. And, if you are buying a new gun, the amount of money saved in its cost by the omission of the raised rib will almost pay for the scope. In fact, it may leave you a few dollars to spare!

As to speed, if you have a tendency to shoot too quick, the scope will slow you down a trifle. If you are a slow, deliberate shot, the scope won't make you any slower and will enable you to do a much surer job of gun pointing.

The sighting arrangement of good, heavy cross hairs with a substantial diamond-shaped center dot is sound and practical and easy to see. The field is big enough for all practical need, and is clear and brilliant to the very edge. The mounts are simple, sturdy, and fool-proof. All in all it is a darn good job and for me, at least, it has worked famously. When a friend called up last evening and asked me if I'd advise him to buy one, I told him, "Yes!" I pass along the same advice to you. ◆ ◆ ◆

Hunting Scopes and Mounts

(Continued from page 22)

really instantly-detachable, instantly-replaceable mount. The Redfield, both the regular and the junior models, are detachable and will replace; but, owing to the fact they are locked in place by a set of opposing screws in the rear base, they cannot be removed or replaced instantly, nor will they always replace exactly as to windage.

Redfield mounts are, however, thoroughly reliable and will withstand hard service. Iron sights can be installed and used when the scope is removed, but the change entails some time. Once adjusted and left on the rifle, it will give perfect service. It offers wider spacing of scope clamp arms and more support to the tube than do most side-bracket detachable mounts, but it is not so quickly dismounted or replaced, nor will it replace as accurately for windage. It will withstand much more abuse, however, than the side-bracket types.

The Turner mount offers more good features than any other detachable type of mount I know. It really is instantly detachable; it can be replaced instantly; and, due to the fact that the scope rests in two open V rests, replacement is accurate, with no chance of losing lateral or vertical adjustment any way. The fact that the scope is held down in the V rest by a heavy flat spring, permits the ends of the scope tube to take hard blows that would ruin any fixed-mounted scope. Such blows merely rock the scope up in the V rest at one end or the other. A really hard blow can rock the scope completely out of the rest and detach the scope from the gun without injuring the scope in the least. You can remove and replace the scope every shot for long strings and never detect the slightest variation in point of impact. I have tried it under every conceivable condition and find it foolproof. Furthermore, you can use the same scope on any number of rifles and have the scope sighted in perfectly on each rifle, all at the same time. The rear V rest has two opposing screws through the top ears of the V rest. These can be turned in or out to give windage and both turned in to increase elevation or both turned out to lower elevation.

The scope can be sighted in perfectly on one rifle and then another set of V blocks or bases made up for another rifle, the scope attached and held down by its heavy spring and the rear screws adjusted to the desired point-blank until that rifle is sighted in—and the same with any number of additional rifles in any calibers from .22 to .375 Magnum. You can then remove the scope from one rifle, slip it on another, and have it perfectly sighted in without firing a single shot. I know of no other scope mount today that is so simple and yet offers so many good features. Turner-mounted scopes have been carried thousands of miles in saddle scabbards without injury beyond wear to the blueing. This is attributable to the cushioning effect of that spring tension which holds the scope down in the wide shallow V rests.

The scope can be removed either by lifting it up and turning it or, if you are really in a hell of a hurry, you can simply slap it sideways off the arm and have your open hunting sights instantly available. For use on dangerous game or in wet country, this is probably our finest scope mount. It is also the simplest, and the simpler the construction of a mount the more reliable it is apt to be back in the far country. The Turner is also one of the lightest, if not the lightest, mount made. It is best suited to small scopes of short length like the Noske, Lyman Alaskan, and Weaver. When removed from the rifle, only two small shallow V rest bases are left on the rifle; one on top of bridge, the other on rear end of the barrel with forward-mounted scopes or on top of the receiver ring with usual mounting. These V bases do not interfere in the least with use of open iron sights, and a Lyman 48 peep can be used if desired.

Combine simplicity with a ruggedness of design that offers some protection to the scope—as does the steel sleeve over the objective lens of the Stith mount, or the cushioning effect of the spring tension in the Turner V rests, or the steel ring protecting the ocular lens in the O'Neil mount—and you have come a long way in selecting a mount for hard service. When you further eliminate stock cuts and flat steel bases that are screwed to the side of the receiver as well as pinned, but which do not contour the receiver at all, as in some of our older side-bracket mounts, then you have eliminated still more causes of trouble.

After getting your scope mounted, lay the rifle across a box or chair with the reticule sighted in on a target or small object at some 200 yards. Then determine by moving the eye up and down and laterally whether any parallax is present. If there is parallax, the reticule will tend to move off the bull's-eye. This condition means merely that the scope is out of focus at that range. With some scopes this can be corrected by moving the objective lens. With others, the reticule must be moved and with the Weaver 330 the adjustment plate screws should be loosened and the whole plate moved forward or backward.

Most hunting scopes are supposed to be corrected for parallax at the factory, but plenty of them still have parallax and give plenty of trouble in the field. When time permits, unless the buyer is thoroughly familiar with their adjustment, they should be sent back to the manufacturer for correction, or taken to a competent man enlisted for the purpose. When no parallax exists, the scope reticule should lay still on even very small objects at from 200 yards to infinity while the eye is moved all around the clock to the limit of visibility through the field of view. Most scopes have considerable lateral and vertical leeway; that is, the eye can be moved considerably across the aperture of the scope field without seriously reducing the field of view. This takes care of hurried shots where the gun is mounted hurriedly, with the eye not exactly in the right position over the comb of the stock.

Parallax can be disregarded at close ranges in hunting scopes. Parallax should be eliminated at the range most likely to be used, and at the exact range in the case of target scopes. Most big-game rifles are well suited if parallax is eliminated at 200 yards. Some parallax will always appear at very close ranges, but this can be disregarded. Remember, practice with your scope-sighted rifle is the best method of becoming proficient with it; and with reasonable care it will repay your efforts many fold. ♦ ♦ ♦

SEE PAGE TWENTY-SEVEN

Little Willie, unafraid,
Monkeyed with a hand grenade.
Mother, at the morgue, complained,
"Willie sure is scatter-brained!"
—Ampro News.

THE OLD CHAMP STILL PACKS A WALLOP

By DON GRAY

"WELL, PARDNER, I'VE GONE AND DONE IT," my gun-crazy neighbor said as he tossed his hat at a peg in my shop.

"Done what?" says I. I had visions of another major operation on one of his handguns. These operations are seldom fatal but, brother, you can depend on the results being anything but ordinary!

"Bought that gun we were talking about the other day."

I reached for the phone. "Sit tight," I said. "The booby hatch ain't far away. They'll have the wagon here in just a matter of minutes."

He grinned. "What I want you to do is to help me figure out a story to tell my wife. I can't use the old gag about it belonging to the club. That one is worked to death."

"You might address it to yourself and put it under the Christmas tree," I suggested.

But Christmas gifts are marked "from" as well as "to," and we couldn't agree on a likely giver. The upshot of it was we had to break down and tell Friend Wife the truth. The results weren't too bad. At any rate, we lived through them. Wives of gun nuts grow accustomed, after so long a time, to learning that the rent money has gone to buy hubby a new gun. After a while, they grow a protective shell of long-suffering fatalism.

We then retired to his workshop and took stock. The gun was a single-shot High-Wall Winchester, caliber .40-90, No. 4 barrel, weight nine and one-half pounds. It was perfect inside. Outside, the blueing was worn, and the sights were blade front and Rocky Mountain rear, or reasonable facsimiles thereof. There was also a Winchester reloading set, a bullet mold, some cases, and a few loaded shells.

"Now that you have it," I said, "what are we going to do with it?"

That .40-90 caliber had us stumped. It was something out of the past and its present worth was more or less a question. However, we were game to try it.

First came a thorough dismantling and cleaning. The gun really was in tiptop shape mechanically. My pardner did the work. I sat around and did the brain work. He threw me out only three times, which wasn't bad; on one former similar job I was thrown out five times.

I wasn't present when he loaded the trial cartridges so I can't say whether he used the fire shovel or a scoop for measuring the powder. I strongly suspected the scoop, and that suspicion was later confirmed. Ninety grains of black powder is what she took, in a case three and one-quarter inches long, topped by a chunk of lead 370 grains in weight.

He called me then and said, "Let's go try 'er." So we drove out in the hills, parked the car, and looked around for a suitable target. We finally settled on an old tree stump and my pardner handed me the gun. "You can shoot it first," he said. (He's good to me that way. I get to try all his new loads and conversions. That may be why I'm classified 4F!) So, taking it gently but firmly, I sighted on the stump and let go.

After the smoke cleared away, my pardner picked me up. "Boy, it really goes off with a bang," he says. "How was it?"

I said, "If it shoots as hard frontwards as it does backwards, we'll sell it to the Army. All they'll have to do is put wheels on it."

Upon examining the stump, we concluded that it shot plenty hard either way. We tried a few more shots at this and at that, and decided we would write to Elmer Keith and see what suggestions he might have to offer.

Elmer Keith replied promptly. He advised a paper-patched bullet; also said, for best results, to bulk the powder until we obtained a report that cracked instead of boomed. He praised the caliber highly as to accuracy and hard-hitting ability, stating that it was the only cartridge he knew of that would go through an elk endways. (More of this later.)

Well, my pardner went to work on the loads, and he really turned out some beauties. That big old slug and neat paper patch really looked like business. But it takes powder to push a slug like that fast and hard enough to do what it is capable of doing. Our experience with black powder left us both doubtful. The case and slug combined measured three and seven-eighths inches long.

Then came the day. Our country abounds with prairie dogs

and jack rabbits, so we felt sure we could find some good testing targets. First off, a jack rabbit ran, stopped, and sat up. Up came that dehydrated version of a tank cannon, and from it came the most beautiful blossom of white smoke I have ever seen. The smoke cleared away—and so did the rabbit.

"Well," says I, "we could use it to dig ditches with."

The gun's papa turned red and mumbled something about poor sights, strange gun, et cetera.

The next stop was a dog town. A nice fat dog sat up about fifty yards away, and this time my pal didn't miss. Did the dog get in the hole to die? He did not. In fact, he was found a measured four feet from the hole! That is, the largest portion of him we found was there. The rest—wasn't.

We shot no less than ten dogs that day and that big slug treated them all alike. They really stayed put. That bullet would move four inches of dirt to get to a dog! And there was no doubt either as to the gun's accuracy.

Week ends followed and we liked the gun more and more. Deer season rolled around and my pardner announced that he was going to use the old .40-90. It was good enough for grandpaw and he'd see if it was good enough for him.

We jumped the first buck at about seventy-five yards. My pardner swung and let drive. The bullet hit behind the front shoulder and ranged forward, coming out the side of the neck. Entrance and exit holes were both plenty big and would have left a nice blood trail if the deer had kept going. But he didn't keep going. He dropped right where the bullet hit him.

Then came the annual elk hunt, and—you guessed it—pal took the .40-90. No one could say he was undergunned!

We made camp after a very arduous climb and, regardless of what anyone may tell you, the fact that I took my first three meals standing up had nothing to do with riding horseback. I just like to eat standing up until I get used to a place. Also, just because I burned off one pant leg building a fire and had a black eye from a bounding piece of kindling wood, doesn't mean that I didn't have a good time. And as to that bandage on my thumb—did you ever try driving tent stakes in the dark with the wrong side of a hand ax?

It snowed about two inches that first night. We arose early and, both of us having been in this section of country before, we decided to split and hunt separately. The first day wasn't so good. Except for plenty of mountain scenery, we saw nothing—not even a track. And the second and third days were repetitions of the first, except for more snow on the second day which kept us fairly close to camp. That was all right with me. My "walking muscles" were screaming.

But about noon of the fourth day, I rounded a deadfall and came face to face with a nice young bull. To my surprise he stood and looked at me. Just as he started to move, I shot and he went down for the count.

My pardner failed to score until the fifth day. With my elk hanging in camp we started out. I took nothing but my side arms and binoculars. It happened about two o'clock that afternoon. Again, it was a bull, head on. Up came the old .40-90. Came a sharp crack and that lovely blossom of white smoke. It seemed ages before that smoke cleared. But there he lay. That slug went through the bull elk endwise and went, in fact, right on and mowed down about half an acre of virgin timber!

Yeah, we're going back next year, and we aren't taking any fancy conversions. The old .40-90 will do. ● ● ●

THIS morning, as this is written, newspapers announce a total of 536,950 American casualties in this war to date. . . . Those casualties are a part of the price we must pay for victory.

Yesterday, a thirteen-year-old boy died in an American home. Last week, an American man—not in uniform, but a craftsman valuable to war production—lost a hand. . . . Those casualties do not appear in the newspaper total. Those casualties contribute nothing at all to our eventual victory; they are a pitiful waste. Yet both of those casualties were caused by war weapons. Boy and man alike were booby-trapped by deadly "souvenirs"—in one case, the detonator of a mine; in the other, an explosive cartridge—sent back from the fighting fronts.

536,950

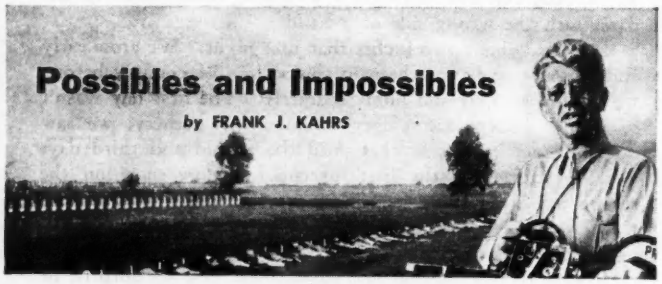
There'll be more such casualties. Many of the gadgets of this war are deadly gadgets, even after they have served (or failed to serve) their initial purpose. Don't be booby-trapped! Beware especially of all souvenirs in the form of cartridges, shells, parts of mines, and like gadgets. Don't think, because you know how "tracer" and "armor piercer" and "ball" used to be marked, that those markings mean the same thing now. They may, and they may not. Even an unmarked cartridge may be full of stuff you'd never expect to find in a cartridge. Even a fired bullet may be a dud, full of stuff you'd never expect to find in a bullet—stuff that will hurt, if not kill.

Play safe! Leave such gadgets strictly alone! Keep them out of the reach of children. Better still, turn 'em in to the nearest Ordnance Depot—or sink them in the nearest deep water! . . . And this DOES mean YOU!

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remg

VOL. 8, NO. 1 First Class Reading Matter for Rifle Shooters BRIDGEPORT, CONN



The other day I met a young fellow new in the shooting game, and he asked a lot of questions about rifle shooting because he was anxious to get going and in the right way.

One of the things he wanted to know was the story of non-corrosive ammunition, so I told him about Kleanbore priming—how it was developed and what happened afterward. Many times I have written about the virtues of ammunition with Kleanbore priming and why it wasn't necessary to clean a gun after using it.

Now the shooters today, like this youngster I'm telling you about, will never know the trials and tribulations that existed during the days of corrosive ammunition. I have seen many guns returned to the factory for new barrels—thousands of these a year—and they were certainly a sight. Some you couldn't see through the bore at all, but in most of them the "Red Demon Rust" had got in its dirty work quickly and thoroughly. There wasn't anything else to do but put new barrels on the guns, and the factory did a great business replacing barrels. I have no recollection of the exact number of barrels that were replaced each year, but if I said thousands, I would not be exaggerating. It was a great economic waste, no doubt about it, but it wasn't all due to carelessness, because many times after cleaning the gun, it would rust because the salts in the priming mixture started to work immediately with "Old Man Rust." They were great pals.

Shoot a gun during the day and forget to clean it and the next morning there was a fine coating of rust there. Forget it for a few more days and you were sunk. No amount of cleaning would stop the inroads of the rust, and so on the farm or the ranch where the guns were frequently used, no one would be able to clean them.

Well, when Kleanbore priming was announced nearly 20 years ago, all of that changed, but strangely enough, shooters continued to clean their guns. They didn't trust it. They wouldn't believe their own eyes when they saw the picture of the bright faced boy holding his rifle aloft, and with an eager expression exclaiming, "I don't have to clean it any more!"

Be that as it may, the factory stopped making extra barrels for replacement and the business dropped off to nothing. If the factory replaces a barrel today, it is not because it is rusted, but possibly because somebody tried it to jack up a car, or tried wrapping it around a tree or telephone pole after missing an easy shot.

I remember very well the tremendous interest and demand created by the announcements when Kleanbore priming was first on the market. It kept the factory open night and day, and it wasn't long before reports of the fine shooting accuracy of Remington ammunition with Kleanbore priming began to come in, and some of the old-timers will still remember that record made by the "Kleanbore Kid" in Toledo, who ran off a couple hundred consecutive bull's-eyes in a match that startled the shooting world.

I still think Kleanbore is pretty good stuff for target shooting, but the "hot shots" had to have something special, so Palma Kleanbore came into the picture and later Targetmaster, but I still like regular Remington 22's with Kleanbore priming for general shooting. If I want to win a match, I use Palma Kleanbore or Targetmaster. So you "pays your money and takes your choice."

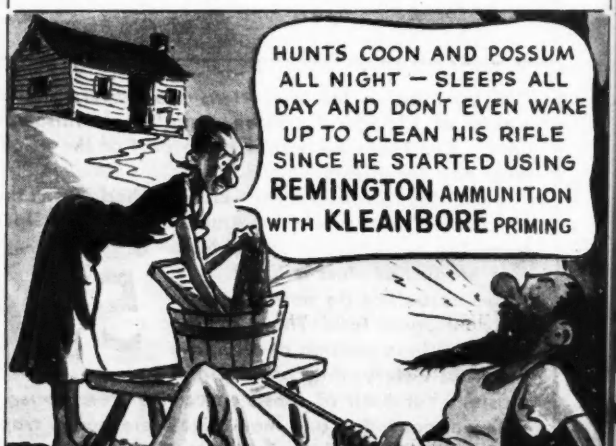
REMINGTON MAK
INVENTION OF "KE

CUT AWAY VIEW OF TWO RIFLE BARRELS SHOWS NON-CORROSIVE BENEFITS OF KLEANBORE PRIMING

BRIDGEPORT, CONN., January, 1945. To test the non-corrosive qualities of Kleanbore priming, two rifles were each fired with 30,000 rounds of 22 ammunition. This test took place when Kleanbore priming was introduced. The cross-sectional view of the rifle barrel on the left shows the poor condition of the rifle barrel that had fired 30,000 rounds of ordinary 22 ammunition. During the tests, the barrel was cleaned carefully every day, yet at the end of 5,000 rounds corrosion could be seen clearly. The rifle was worn out completely after 30,000 rounds.

The sectional view on the right shows the rifle barrel that shot 30,000 rounds of Remington 22 ammunition with Kleanbore priming. Notice the difference. The barrel was not cleaned during the test, yet it remained free of corrosion.

AROUND OUR WAY


HUNTS COON AND POSSUM ALL NIGHT — SLEEPS ALL DAY AND DON'T EVEN WAKE UP TO CLEAN HIS RIFLE SINCE HE STARTED USING REMINGTON AMMUNITION WITH KLEANBORE PRIMING

...mington News

CONNICUT, JANUARY, 1945

FREE: To Readers of American Rifleman

WEATHER:
RIFLE EXPERTS MAKING IT HOT FOR THE JAPS

...AKS NINETEENTH ANNIVERSARY OF ...KEANBORE" NON-CORROSIVE PRIMING

Declared One of the Greatest Developments Since Smokeless Powder

FIND NEW PRIMER ELIMINATES RUST
Remington Arms Company Experts Develop Ammunition for Use in All Size Guns
THREE YEARS PERFECTING
Officials Silent on Discovery but Test Results Are Known
TRIPLES LIFE OF RIFLES
N.Y. TIMES - 5th

Shown here is a newspaper story about Kleanbore priming taken from a leading newspaper in 1926. Newspapers and magazines all over the country announced the news about this revolutionary development. "Kleanbore" priming was introduced only after years of unceasing effort in developing a priming mixture that would not cause rust, corrosion and barrel pitting.

INTRODUCTION IN 1926 STOPPED PRIMER CORROSION IN BARRELS

BRIDGEPORT, CONN., January, 1945. One of the most revolutionary and amazing developments in ammunition history was the development of Kleanbore priming by the Remington Arms Company nineteen years ago.

The discovery was not just accidental. Prior to introduction of Kleanbore priming, extensive and painstaking research was conducted in Remington laboratories. Through close cooperation between Remington chemists and production men, a non-corrosive primer was developed. The name Kleanbore was chosen for it through a nation-wide contest.

At the Remington ammunition works, Bridgeport, Conn., 500,000 rounds of 22 ammunition with Kleanbore priming were fired through one rifle. During the entire test, which took place during a period of more than ten years, the rifle barrel was not cleaned, yet it remained free of corrosion with accuracy unimpaired.

Up until the time of the development of Kleanbore priming, approximately 90 per cent of all gun barrels were condemned to the junk heap before one-tenth of their potential accuracy life was realized, due to corrosion caused by old-fashioned corrosive priming. With Kleanbore priming, the need for cleaning rifle barrels was eliminated.

As a result, rifle shooting became more and more popular with the general public. With the need for constant cleaning of a rifle barrel done away with, people took a greater interest in shooting and many graduated to the target shooting class.

"Kleanbore" priming is undoubtedly among Remington's greatest contributions to the shooting world. It represents one of the many ways in which Remington has fostered the advancement of shooting by pioneering better products for shooters.

Name "Kleanbore" Chosen in Nation-wide Prize Contest

MIDDLETOWN, U. S. A., January, 1945. In order to obtain an appropriate name for the new non-corrosive priming, developed by Remington in 1926, a contest was conducted, offering prizes for *the best* names submitted. Nation-wide interest was created among shooters by this contest and thousands of suggestions were sent in.

Strangely enough, two contestants submitted the winning name Kleanbore. The Board of Judges for the contest, made up of prominent shooters and advertising experts, selected the name Kleanbore because it best expressed the benefits of this amazing primer.

...HAT NOTED WRITERS SAID ABOUT "KLEANBORE" IN 1926

...CROSSTOWN, U. S. A., January, 1945. One gun and ammunition editor, famous because of his intimate knowledge of firearms and ammunition, wrote that he "considered the date on which Kleanbore priming was announced as one a red circle should be drawn around, believing it to be the most important advancement and improvement in ammunition in years."

Another writer said: "Remington has indeed made a remarkable advancement in ammunition manufacture."

Kleanbore, Palma Kleanbore and Targetmaster are Reg. U. S. Pat. Off. by Remington Arms Co., Inc.

The Rifle for the Southwest

(*Continued from page 9*)

escape the conclusion that the 130-grain .270 bullet will prove effective for this type of game.

In my hands the .270 has accounted for three kinds of deer, for antelope, and for black bear, as well as for predatory animals. It has never failed to take plenty of gimp out of any animal hit, and one well-placed shot has always anchored the animal.

The 130-grain .270 bullet will usually anchor deer even with a paunch shot; a fact demonstrated so often that some hunters deliberately try to place their bullet in the paunch to conserve meat. (Not that I recommend this policy; I don't.) This shot is used successfully also on moose and elk.

A few case histories might be of interest. One afternoon I was trudging toward camp, as tired as a ten-dollar horse, when a fine buck darted past me with the speed of a rocket. A hasty shot, fired subconsciously, struck him in the lungs as he bounded through the air. He crumpled in mid-air and was stone dead when he shoved his nose in the ground.

A .270 bullet unhinged the neck of another buck, and that one hit the ground so hard he actually bounced!

A ten-point buck was knocked off his pins with a single shot, and he skidded on his ear.

A fine eight-point buck, struck in the shoulder with a 130-grain .270 bullet took one leap and closed his shutters for good.

With steps like those of a stalking panther (this was before rubber rationing), a fellow hunter crept up to within 180 yards of an antelope. When the rifle popped, that "goat" dropped as though struck by lightning.

A dandy muley stood gazing at me about 250 yards away. He seemed as big as a tank and twice as easy to hit. I aimed for the sticking place. He jerked convulsively as my bullet raked his boiler room. It lifted him up and over and caused him to reverse ends. His midriff was badly messed up and he died without so much as a kick.

Once I pointed out a buck to a hunting companion. The deer was 300 yards away and we couldn't get a yard closer without exposing ourselves. The hunter made no move to fire and I inquired if he was going to hazard a shot with his much-touted .30-30. He gave me a look that hadn't been washed in years and said, "Hell, no. Do you think I want to shoot at a deer a quarter of a mile away?" . . . When my .270 knocked the buck as cold as an icebox, my pal swelled up like a poisoned pooch. He was peeved because my rifle outranged his. Before the hunt was over, he tried to swap me out of the .270. No dice! A rifle that turns in performances like that, not just now and then but fairly consistently, naturally is not for sale at any price, and any man who owns such a rifle should feel prouder than a peacock with two tails.

Yes, sir, the .270 is a fine rifle with which to chuck hot lead at elusive bucks. No doubt about it.

But who can deny that the winds of chance blow hot and cold? Two men fall into the sea. One drowns; the other comes up with a pocket full of pearls. A few persons have had hard luck with the .270 on deer, but certainly those experiences were the exceptions rather than the rule.

In an argument on guns, I can always see both sides—the wrong one and my own. But, seriously, here's one for the book. For every isolated complaint registered against the .270 on the grounds of low killing power, ten squawks have been lodged against it for "killin' 'em too dead"—that is, for destroying too much meat. Well, no one in his right mind ever called the .270 a chipmunk rifle. Definitely, the bullet is a vicious one. Incidentally, that's what it takes to do the job. You can't expect adequate killing power without large, deep wounds. The two go together.

Here is an argument that has been used many times and no one has ever successfully answered it; at least, not to my way of thinking. The 130-grain .270 bullet does destroy meat. A sage once observed that you must break eggs to make an omelet. It is equally true that you must kill the deer before you can slice off the venison steaks. One way to do it is to plant a bullet from any old smokestack in a vital spot. An easier way is to hit him wherever you can with a superspeed bullet that will paralyze his nervous system and jolt the daylights out of him in his tracks. That calls for a radical displacement of tissue! . . . Still another method is to wound him with a peashooter, call out the hounds, and chase him over three ranches. (When the head is weak, the legs suffer!) If the hunter can run as fast and as far as the dogs, he'll get his deer—and a hunk of fevered, inedible meat it will prove to be, too! There's no percentage in that sort of thing. And it usually doesn't end even as well as that. The venison, good or bad, usually goes to the coyotes and buzzards. And if *that's* not spoiling meat wholesale, I'm crazy!

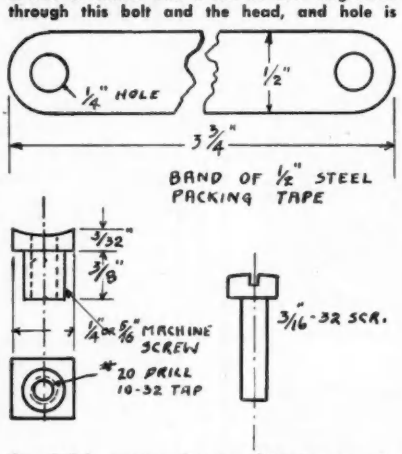
Any party who ever tried to boost a buck up the steep side of a canyon, into which it had dived after being hit with a "meat-saving," low-velocity bullet, will tell you straight off the bat that he would like to swap his squirt-gun for a rifle that will put 'em down and keep 'em down—on top of the mesa, not in the bottom of a sheer-walled canyon.

As a rule, a wounded buck makes good his escape only to die a lingering

BARR'S BARREL BAND

A simple and inexpensive inside barrel band for a rifle may be made with a four-inch piece of steel packing tape and either a quarter-inch or five-sixteenths-inch machine bolt. The drawings show how this may be done.

The tape is shaped as shown, with quarter-inch or five-sixteenths-inch holes, depending on the size of the machine screw used, at each end. The machine screw is then cut off to within three-eighths of an inch of the underside of the head. A hole is drilled with a No. 20 drill lengthwise through this bolt and the head, and hole is



threaded by means of a ten thirty-two tape to take three-sixteenths-inch thirty-two screw. The head of the bolt is then shaped to conform with the curve of the barrel with a rattail file.

The band is placed around the barrel and the holes fitted over the bolt which takes the screw going through the stock from the sling swivel. The tension is fully adjustable and, as it is relatively free around the barrel, the direction of pull has to be straight down and into the fore end where it belongs.

(This band cannot be used on rifles from which the front sight base or ramp cannot be removed.) **—Al Barr.**

death hours later, a complete loss to all concerned. The sour meat on the frames of animals hit with old-style, "shoot today, kill tomorrow" rifles is a hundred times as great as the slight loss of meat caused by high-speed bullets that anchor the animal to the spot. What is the loss of a few ounces of flesh compared with the loss of the entire animal? To pick the berries, you must scorn the briers.

This loss-of-meat argument doesn't make sense, and I'll tell you why. A single hit with a 130-grain .270 bullet in the rib cage, shoulder, hips, or even in the paunch will usually knock a buck as cold as a wedge. Will a similarly placed bullet from a low-velocity rifle do as much? It will not, and it cannot. Two or three shots, on the average, from an old-style rifle would be necessary to kill as quickly. A buck, hell-bent on escape, can get out of range faster than a monkey can take his hat off with both hands. Now, if the hunter is shooting one of these low-power, "meat-saving" loads which call for three hits for one kill, the buck will evaporate into the next county before three shots can be slammed into his carcass.

"Can a deer cuss? . . . If they can, I just shot one . . ."

Does anyone think for a minute that one shot from a .270 will spoil as much stew, or anywhere near as much, as three or even two shots from an old-style popgun? Neither do I. Why, with three shots from the popgun placed indiscriminately in the body of a small buck, there wouldn't be enough edible meat left to grease the frying pan. So, when we get right down to cases, we find that the .270 kills light game bomb-quick, as a rule, and with the minimum loss of flesh; whereas, when old-style rifles are employed, it is customary to keep blasting away just as long as the deer is in sight or until the gun runs dry. Even if one bullet destroyed as much meat as three of the other bullets, I would still go for the .270 for deer and similar game because I shoot for sport and not for meat. But as a matter of fact the .270 is an ideal caliber for either the sportsman or the skillet-hunter.

It seems to me that a quick-killer like the .270 should be the answer for the man who hunts in Pennsylvania or Michigan, where the hunters go out in droves and where a man with a rifle crouches behind every stump; where, if the hunter fails to drop his buck in its tracks, it's better than a fifty-fifty chance that it will dash over the ridge and into the arms of another stump-squatter. Obviously, under such conditions, the hunter would do well to choose a rifle that could be depended upon to flatten the animal instantly with a bullet placed anywhere in the body cavity or even in the hips.

Choose a .270 Winchester and with any "hunter's luck" at all, you'll get all the game the law allows! ♦ ♦ ♦

THE SNIPER

From an article by Lt. Col. R. E. W. Johnson in "Aim," army magazine of the British Middle East Command.

What is a "sniper"? Press and other reports of actions almost invariably refer to "enemy snipers"—but often what they really mean is just good shots armed with standard weapons.

A sniper is more than that; he must be (a) a marksman—not just a "good shot"; (b) armed with a specially accurate rifle with which he is fully acquainted; (c) skilled in field-craft, camouflage, and stalking; (d) courageous, self-reliant, and patient.

Such a man cannot be trained from "scratch" in five minutes —or in five weeks, for that matter.

What is the sniper's job? What is he expected to achieve?

First, he must be capable of guaranteeing a hit, four times out of five, with his first and only shot, on a target as small as the lower half of the human head at any distance up to 300 or even 350 yards in almost any conditions of light and weather.

Secondly, he must be able to harass, by accurate fire at ranges up to 1,000 yards, enemy parties or individuals who are foolish enough to expose themselves in his field of view. An experienced sniper will not only harass, but will reckon, with luck, to score a fair percentage of hits even at these longer ranges. (In point of fact, there are cases on record of hits on individual men at ranges up to as much as 1,700 yards.)

Thirdly, because he will be in a position to observe enemy activity, the sniper should be able to report information on enemy movements clearly and accurately and thus act on occasions as an extra "eye" for the battalion intelligence officer. This function, however, is the modern sniper's only contact with the Intelligence Section. But his use as an observer will be secondary to his two main tasks, which entail accurate shooting first, last, and all the time.

It follows from the above that no man can be called a sniper unless he can shoot—and shoot really well. It is, therefore, essential that men selected for training as snipers should be marksman first of all and stalkers and camouflage experts afterwards. A good shot can much more easily be taught fieldcraft than can the expert scout be taught marksmanship. This is a fundamental truth, and those who refuse to admit it will, in the end, have to "learn the hard way." . . . ♦ ♦ ♦

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

NATION OF RIFLEMEN?

Germany, September 21 (V Mail)

Editor:

I haven't done a lot of shooting since being overseas, strange as that may seem. Actually, I fired more rounds on the ranges in England. We had very poor weather there for firing, but all in all our scores were good. The range was 200 yards; targets were a black bull on a blue field, which made centering difficult.

The M1 has proved itself beyond all doubt. The carbine leaves much to be desired in some respects; sights are poor, the barrel finish does not hold up, and it does not pack the wallop I think could be built into the cartridge. In general, though, all arms are very good, even though (due, I suppose, to mass production) interior and exterior finish is below that of a prewar five-dollar .22.

After this is all over, a drive should be made to stimulate interest in arms and in the sport of shooting. It is a disgrace to our country to see so many men who have no knowledge of any type of weapon before their entrance into the service. To top it off, many do not yet know the fundamentals of shooting, nor do they show any interest in learning.

Or maybe I'm prejudiced, since I started to shoot very young and had all the room in the world to shoot in, plenty to shoot at, and plenty of time for shooting.

1st Sergeant Earll E. Wells.

THE MARQUIS OF AILESBURY SAYS:

Savernake Forest, Marlborough.

Editor:

Thank you for sending me the name of the kindly person who is sending me your excellent magazine. . . . You are doing a national service in insisting on the importance of good rifle shooting to the soldier. It strengthens his own morale and reduces that of his less expert opponent. Your nation gave mine a valuable lesson at New Orleans, and I learned another one personally in South Africa forty-five years or more ago!

Ailesbury.

ILLEGAL LEARNING

9th Bomb Group, Army Air Forces.

Editor:

I just read your November editorial and its contents convince me that the boy who wrote that letter must be from Elizabeth, New Jersey—my own home town! I wanted to learn to shoot, too; but Jersey laws and Elizabeth laws are so snarled with red tape . . . one must learn to shoot almost in an illegal way! I had to learn to shoot after I was twenty years old, and even now can't shoot well enough to suit myself.

It grieves me to see so many fellows who can't shoot. A range instructor said that the Sullivan Law was "our worst offender" in preventing honest men from learning to shoot. . . . I myself am none too sure of my ability with my side arms. What can be done about these things?

Pfc. Otto Tuma.

REPORT FROM HOLLAND

Headquarters, 7th Armored Group.

Editor:

The enclosed clipping *(see below)* appeared a day or so ago in *"Stars and Stripes"* and, thinking there might be many readers of THE RIFLEMAN who would remember Sergeant Umberger of the Infantry Rifle Team, I'm sending it along to you.

It's pleasant to roll along these lovely Dutch roads; refreshing to see the beautiful little Dutch youngsters, their rosy cheeks complemented by the bright orange ribbons in their hair. Here, as in France and Belgium, you find the friendly oldsters shaking hands and mooching American cigarettes. I can't say so much for Germany. There are very few people in the towns and villages there. Those that are there are real young children and, again, the oldsters. The impression I've gotten is that they are simply stunned; and yet, when you look at them further, there seems to be, under it all, a look that is hard to describe. I think they have been suppressed so much through fear of the Gestapo and lied to so much by means of propaganda that they little know what is going on.

"Chuck"
(Lt. Col. Charles G. Rau).

First Sergeant Clarence L. Umberger, 38-year-old infantryman with a 2nd Infantry Division rifle company in France, was a nationally-known rifle expert at Fort Sam Houston, Tex., before coming overseas. Since then he hasn't had much opportunity to use his skill because of the nature of his duties.

Not long ago, however, the former rifle champion had an opportunity to use his favorite trick. His company got a glimpse of an enemy observation post nearly 1,000 yards away with Nazis traveling past a small opening. The range was too great for an ordinary marksman. The rugged top kick decided to see if he could account for a few.

He killed six and soon there were no more Nazis crossing the open space. When his company finally took the position, they found that the enemy had dug a ditch across it—so they could go back and forth in comparative safety.

WE'RE IN FAVOR OF IT, TOO

Houston, Texas.

Editor:

I'm sorry I didn't discover your magazine years ago. It fairly breathes the inner emotions of every sportsman. I have one suggestion, when conditions permit: more actual experiences of our boys "Over There" for the benefit of us who had to remain at home.

Also, I am in favor of a plan whereby NRA members, perhaps through the American Legion or other organizations, might place THE AMERICAN RIFLEMAN in all rest hospitals and convalescent hospitals.

E. E. Rogers.

THE RIFLEMAN *is being sent free of charge to all military hospital libraries; not, however, to their rest and convalescent branches.—Ed.*

TEACH CONFIDENCE

APO 763.

Editor:

Thank you for putting out a great magazine. I only wish the Army would heed some of the splendid editorials and articles!

I was a Junior Member of NRA and completed the qualification course. My dad, who is a Life Member, taught me a lot too, and my experience in the Infantry has proved many of the things dad said. For instance: "Beware of the man with one gun!" The Army should think that one over!

I carried the M1 and think it is a good rifle; but the thing they fail to teach is confidence in the rifle. The soldier isn't given sufficient chance to find out how good his rifle is and what it will do. It is too late to gain that confidence once you're in combat; and lack of confidence has a serious effect on the shooter's ability.

Pfc. Wayne E. Jens.

RALPH WALDO MILLER

We regret to advise all members of the Association that numerous complaints have been received over a period of several months regarding Ralph Waldo Miller, of Topanga, California. The complaints are all of a similar nature. Miller has accepted rifles for remodeling and has accepted advance payments to cover the work. He has then failed to deliver the guns as promised, or to make refunds. Personal visits by a representative of the Association have failed to secure any satisfaction from Mr. Miller despite his continued promises to make proper adjustments. He has not been permitted to advertise in The Rifleman for many months, and his membership in the NRA has been discontinued.

SHOOTING BIG-SHOTS

"Mr. Churchill, General Eisenhower, Commander-in-Chief of Invasion Forces, and General Omar Bradley, Commander of the American Armies in Britain, took part in a shooting match during their visit to a United States Army Base in England.

"Mr. Churchill had come to watch a crack American armoured unit stage a mock battle over the rolling English countryside. But he was not content to watch.

"Before he left he had fired live ammunition from a carbine, the new lightweight American rifle, a submachine gun, and a .45 pistol.

"For the target practice each man had a clip in his rifle. Two targets were set up, one at fifty yards, the other at 100 yards. The three men fired together. They scored between them twenty-five hits on the near target, fourteen on the far: a total of thirty-nine out of forty-five.

"American officers were amazed as the Prime Minister set down his cigar, waved a cameraman aside, picked up his rifle, took up the correct stance, pressed his cheek to the stock, and glanced steadily along the sights. (Was he not President of the Admiralty R. C. of the Society of Miniature Rifle Clubs years ago?)

"He was equally expert with the submachine gun and pistol."—From the British "Rifleman."

NRA BOARD TO MEET

As provided in the by-laws of the Association, the Annual Business Meeting of the Board of Directors will be held in Washington, D. C., on Friday, February 2, 1945. The meeting, to be held at the new Hotel Statler at 8 p. m., is for the purpose of electing officers for the ensuing year and for the consideration of such other business as may properly come before the Board.

A meeting of the Executive Committee will be held at the offices of the Association on the following morning, February 3, at 10 o'clock.

THE SULLIVAN LAW WORKS FAST

Alexander W. Anderson was, to quote a letter from one of his old friends, "a true sportsman and, above all else, a 100 per cent American." He was for twenty-five years a Life Member of the NRA. . . . Attached to Alexander W. Anderson's obituary, published in this issue, was the following note:

"Incidentally, the New York Police were at his home in less than fourteen hours after his death to pick up his pistols and permit."

Such energetic law enforcement lends hope for the early solution of the ten-or-more-years'-old Rothstein murder case!

TRIAL RUN

Much has been said recently on the subject of more position shooting and rapid-fire events in the small-bore rifle game The Square Circle Club of Mora, Minnesota, has gone ahead by scheduling such matches as a part of the Annual Eastern Minnesota Smallbore Rifle Tournament which they sponsor.

The tournament was held on August 27 this year. The program listed, beside the usual fifty- and 100-yard prone matches, a four-position, any-sight match at fifty yards and a Rapid-Fire Match at 100 yards.

The four-position match was included in the Grand Aggregate, which added variety and opened the field with an opportunity for the all-around shooter. Five shots were fired in each position, standard targets, four targets framed at one time, total time allowed.

In the Rapid Fire, the target used was the smallbore "D," 100-yard, prone silhouette. Firing was in strings of five shots; two strings from standing to prone and two from standing to sitting. Time was forty seconds per string. Targets were stationary, on the regular frames. "Commence Firing" and "Cease Firing" commands were given verbally. All four strings went off in fine order.

Reports state that this program received a fine reception from the shooters, the only ones not competing in the Rapid-Fire event being the few users of single-shot rifles. Several shooters stated that it was their first experience with rapid fire and had been quite enjoyable.

It might be mentioned that this same program proved to be highly successful at the 1943 Mora matches.

CHALLENGE

The University of Chicago Junior Rifle Team would like to fire shoulder-to-shoulder or postal matches with any junior, prep, or college team under the following conditions: 10-man teams, 5 high scores for record, 50 feet, iron sights, four positions.

Address Russell Wiles, Jr., Coach, 5640 University Avenue, Chicago 37, Illinois.

SHOOTER TO CAPITOL HILL

Newly elected Congressman Dean M. Gillespie, Republican, of Denver, Colorado, is an old-time shooter and has long maintained his membership in the Colorado Rifle Club. The nation can well afford to have a few men on Capitol Hill who are acquainted with the shooting game!

STOLEN GUNS

One Springfield M2 .22 rifle, Number 17284B, with Lyman sights; one Sears Ranger .22 Model 50; two leather slings stamped (on claw) LPG2 and LPG4. W. S. Bailey, Lincoln Park Gun Club, 1764 O'Connor, Lincoln Park 25, Michigan.

One Winchester Model 70 K Hornet, Number 24067. Gene Hojda, Lebanon, Kansas.

COMING EVENTS

Registered Class C Tournaments

Illinois, January 21—Mid-Winter Indoor Pistol Championship Matches, Chicago. Sponsored by Illinois State Rifle Association. Roy E. Gaut, 501 E. 88th Place, Chicago.

Unregistered

New Jersey, January 7—The Presidents Match, Union City. Sponsored by Swiss Rifle Association. Catherine Natusko, 457 West Street, Union City.

January 21-22—Small Bore Rifle, 50 Meters, Paterson. Sponsored by Columbia Rifle Club. John Berger, 447 Kearney St., Paterson.

Lieutenant Kent H. Soper

Lieutenant Kent H. Soper, twenty-one, of Elmira, New York, was killed recently in an airplane crash at the Ontario Air Field, Ontario, California. Lieutenant Soper was a P-38 Lightning pilot and had recently returned to the Ontario base after a fifteen-day home leave. He was an active member of the Elmira Rifle and Pistol Club and was a participant in both indoor and outdoor shooting.

Smith W. Brookhart

Smith Wildman Brookhart, Captain of the American Palma Rifle Team in 1912; President of the National Rifle Association 1921-24; United States Senator 1922-24 and 1926-32; 2nd Lieutenant, Iowa National Guard in the Spanish-American War; Major of Infantry on the Mexican Border; Lieutenant Colonel and Chief Instructor in the Small Arms Firing Schools at Fort Benning and Camp Perry in World War I, died at the age of seventy-five, in the United States Veterans Hospital at Whipple, Arizona, on November fifteenth.

Always an independent thinker, active, aggressive, enjoying a battle of any kind, he was the center of many an argument as to small-arms training methods just as he was the center of innumerable political fights. His advancing age failed to make any visible inroads on his physical appearance or day-to-day activities as a Washington lawyer and lobbyist until the death of his wife. Almost immediately thereafter he became a patient at the Veterans Hospital where he died.

Brigadier General W. C. Harllee, USMC

The officer who became known to civilian riflemen because his was the task of conducting the 1919 National Matches on the waterlogged Caldwell range, died at his home in Washington, D. C., on November twenty-first. He was sixty-seven at the time of his death. General (then Colonel) Harllee had one of the most difficult tasks of any National Match Executive Officer in history when he administered the 1919 National Matches. The Caldwell Range was located in a tidal swamp. State Civilian Rifle Teams were attending the National Matches for the first time and the whole administrative setup for them had to be worked out in the rain and mud. All the unpleasantness was, however, forgotten at the end of the matches when the small-arms ammunition dump was conveniently left "unguarded" so that the civilian riflemen might return home with ample supplies of 1917-18 ammunition! Some of that ammunition was still helping to promote civilian small-arms practice when the present war started.

General Harllee's military service included service in the U. S. Volunteers in the Philippines in 1899 and service with the Marines in the Boxer Uprising in China, the 1914 Vera Cruz landing, and Marine Corps operations in Cuba, Santo Domingo, and Haiti. His only son, Commander John Harllee, USN, has recently been awarded the Silver Star for gallantry in action commanding Motor Torpedo Squadron 12. Mrs. Harllee survives.

Alexander W. Anderson

Alexander W. Anderson, of Hollis, New York, died November 12, 1944, after a short illness following a heart attack. He was born July 26, 1883. He became a Life Member of the National Rifle Association in November, 1919, almost twenty-five years to the day prior to his death.

He was an active member of the Brooklyn Rifle Club since its organization in 1906, serving as an officer in many capacities for a period covering more than thirty years.

Frank D. Hawkins

Frank D. Hawkins, whose name is known to millions of American sportsmen as the inventor and producer of the Hawkins Recoil Pad, is dead after an illness of two years. Primarily a trap and field shot, Mr. Hawkins was better known among competitors at the Grand American Handicap than at the National Matches. He had, however, been a member of the National Rifle Association as well as the Amateur Trapshooting Association, the Izaak Walton League and the American Legion. He was fifty-two years of age at the time of his death.

L. L. Burritt

L. L. Burritt, member and for many years Secretary of the Bayonne Rifle Club, died recently after a month's illness. Although Mr. Burritt never participated in regional or national matches, he was regular and faithful in all club activities and took part in various interclub matches. He was also active in the Pre-induction Courses carried on by the club.

DOPE BAG

☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

H. & R. Training Rifle · Functioning · Comparative Accuracy · Straight-Thrust Rifle · Bull Pup Shield · Old and New Loads · New Wildcats · Small · Medium and Swift Type · .25-Caliber Magnums · The .30-30 Limitation · Trade Dope

M-65 H&R TRAINING RIFLE

It seems like old times to be reporting on a new firearm again. This one is the .22 caliber semiautomatic training rifle made by Harrington & Richardson for the U. S. Marine Corps, now also available to civilians at a price which may be prophetic of the postwar scale. It is not the first .22 rifle that we have tried in new models, but it is the first one to be placed on the market. This Military Model 65 was developed as a preliminary training rifle, and it may not satisfy civilians for sporting purposes, as it is pretty crude.

At first contact, the rifle seems big and heavy. That impression comes from the generous amount of wood and barrel. The latter is unusually heavy as those of its type have gone in the past, being a full inch thick at the breech and eleven-sixteenths of an inch thick at the front sight. In feel, it reminds you somewhat of the M1 Garand, although there are pronounced differences in design and appearance.

The over-all length is forty-three inches; the weight, nearly nine pounds; the trigger pull, five pounds; the metal finish, a Parkerized military gray; the wood finish, military oil dipped; and the stock, of American walnut, has Service dimensions. In every respect, these specifications are faithful duplications of those of the Garand. Other points of similarity are: the twenty-three-inch barrel length, the type and location of the sights, the sling swivels, and the semiautomatic action with clip loading.

In our own tests, with one rifle, the functioning was reliable throughout, although it was not perfect with certain brands. These exceptions were too heavily greased or the load (one brand) was too light for the sample rifle. All normal loads of all brands and lots functioned normally. In fact, we had only one functional failure in nearly 400 rounds of seven different brands. Including the light load, which gave 30 per cent failures (to cock), the total malfunctions were only 1 per cent of the total number of rounds fired. An earlier failure to close tightly, 10 per cent of the time, on two different brands has been eliminated by substituting a heavier retracting spring.

Considering the semiautomatic action, the magazine feed, and the military-type sights, the accuracy we obtained was probably satisfactory. In the first test, at fifty yards, 120 rounds of seven different brands averaged 1.57 inches maximum spread per ten-shot group. Of these, 80 per cent averaged less than an inch spread per group, or .95 inch for eight or nine shots in each ten-shot group. The best load had a ten-shot average of 1.29 inches, while the poorest averaged 1.80 inches. However, that load did best in our hundred-yard test, with a ten-shot average of 2.70 inches, the other loads running 3.00, 3.52, 3.30 and 3.22 inches per ten shots at a hundred yards. The spread was pretty even for all loads, with no tendency to bunch a portion of the bullets in any group, with one exception. That one had nine in 2.15 inches.

This is not quite as good as the accuracy we have recently obtained from another make of rifle of this type with the same ammunition and with similar sights. In that fifty-yard test, fifty shots averaged an inch spread per ten shots with the best load. Another load, fired thirty times, averaged 1.36 inches. Two ten-shot groups were fired with a third load and averaged 2.04 inches. The average per ten shots for all ten groups was 1.37 inches at fifty yards. The normal groups, of eight or nine shots, averaged .99 inch. The failures (to feed) were three, or 3 per cent. These results, with two different semiautomatic .22 caliber rifles designed for military training are interesting, because they indicate that this type of rifle is not as accurate as the target-type bolt-action rifle, which would average closer to an inch with all loads and would give finer groups with selected loads.

Outside of its similarity to the M1 Garand in feel, weight, and proportions, the Military Model 65 has one exclusive feature which is noteworthy in this training field. Its firing pin and the ignition arrangement is so engineered that the pin cannot reach and burr the rear edge of the chamber, and unlimited snapping practice may be conducted without a fired case or other protective gadget in the chamber.

The H&R Military Model 65 is relatively crude in design and finish when judged by prewar civilian standards; just a War offspring

NOVEL BULL PUP

I believe you might be interested in a novel gun of the Bull Pup variety that I have been using for several years and that has aroused considerable interest on the part of my friends who have seen it and observed its action.

The principal feature of interest is the use of two right-angle prisms in the line of sight, enabling me to lower the barrel so that the bore is in line with the center of thrust against the shoulder of the shooter. Thus, there is no tendency of the muzzle to rise on discharge.

Another advantage of this construction is that the lower position of the fore-arm enables the user to hold on the target with greater steadiness, it having all of the advantages and none of the disadvantages of a palm rest. It will be noted that the receiver is so located that the eye and cheek of the shooter are given perfect protection from any escaping gas or a blown cartridge.

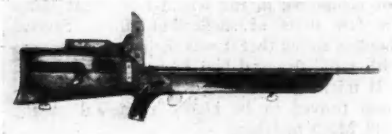
There is a hole through the butt plate, slightly larger than the bolt diameter, which permits easy removal of the bolt and ready inspection and cleaning of the bore. A minor feature is the thumb rest on the right side, which feature I have used on other guns and find it facilitates a steady trigger squeeze.—FRED B. COREY.

ANOTHER BULL PUP SHIELD

I, too, tried the "shield of metal," even one of what I thought, at the time, was a pretty cute idea, for it was designed to move back out of the way with the bolt. I tossed them all overboard and, for years, used simply a piece of nice sheepskin thrown over the whole receiver. This was all right, but a nuisance, and, some time ago, I made up a gadget which I feel is the best solution I've tried yet.

I used the spring clip which they put on the rear mudguard of a bicycle to receive the stand when it is kicked up out of the way. This was ground down to a length of about five inches. In the one I used there was an oblong slot at one end which was not quite long enough to pass the screws (6-48's) which were to hold it in place on top of the receiver ring, but it was easily elongated. On *top* of this I attached a small piece of sheepskin. It was about 2½" x 4", and over the steel spring was cemented a strip of kip, an inch and a half wide, so that the spring is "imbedded."

Being held securely at the forward end to the receiver ring, it forms a beautiful cantilever, and is a perfect shock-absorber. The sheepskin overhangs the spring about an inch and a half on the side next to the face and somewhat under a half inch on the other side, so that loading (not clip) is easy, and it does not in the least interfere with ejection. Although I never yet had a blow-back, I feel very sure this will give the necessary protection, and it is a wonderful buffer and shock-absorber as well, and easy to make.—G. NORMAN ALBREE.



A novel Bull Pup built by F. B. Corey

CLUB NOVELTY MATCH

Friend Paul Young, of the Miami Rifle Club, told me his group tried several novelty

matches in a day of preparation for a Thanksgiving Day Match by his club. Their findings might interest other organized groups of shooters, and I am giving the high lights of the Miami dope here. For targets, clay birds were used and any break was a hit. These were exposed for five seconds at 50 yards in the Surprise Match which was the most popular of those tried and also this one permitted the greatest number of contestants to fire in the period of the program. Five of these targets were exposed for the five-shot course at intervals of ten seconds to permit reloading of the rifle. The Army standing position was used in all matches. A swinging target was liked least of all and was omitted. A laterally moving target was second in popularity. These moved 30 feet in both directions for an exposure time of ten seconds per shot with an interruption of ten seconds for reloading. All matches were squadded with a limit of four per squad. The squad winner was the shooter with the most broken targets and he got 50 per cent of the entry fees paid by his squad. The trial shoot was limited to club members, but the subsequent turkey shoot was open to the general public.

LOADING EXPERIMENTS

Adalbert Tshirner, of Santa Cruz, Calif., had a .40-82 Winchester which key-holed the target. It did a little better with black-powder loads when the neck of the case stuck with the bullet through the bore. Finally, he resorted to the lubricated filler, but instead of the once-popular cracked corn he used sawdust lubricated sparingly with melted bullet grease. On his midrange load of blackpowder or No. 4759 powder he pressed a wad of tissue, followed by his column of oiled sawdust and a thin layer of dry sawdust to keep the base of his lead-alloy bullet clean. The column of lightly greased sawdust acted as a shock-absorber to give the bullet an easy start, and it solved the problem of gas seal and adequate lubrication as well. Such fillers are safe only in straight cases (not bottleneck) and with modified loads.

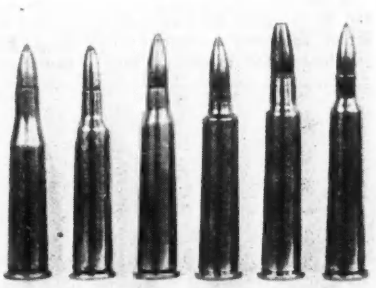
E. Nindeman suggests lapping out the neck die until it is up to .001 inch smaller than the expanding plug to avoid some splitting of Lovell cases. This is in addition to the annealing we mentioned in the December Dope Bag. He suggests also that the load of No. 4198 be cut to 16.3 grains for improved results at but little sacrifice of trajectory in the 2R Lovell.

Philip P. Newcomb has had improved accuracy in his .257 Roberts with gas-check bullet No. 257325 when he increased his powder load from 32 grains of No. 3031 to 37 grains. This 111-grain bullet, designed for the .25 Remington, was .2575-.2582 in diameter but was loaded loosely in unsized cases and held with a crimp. There was no leading with those old bullets which had been purchased from Lyman five years earlier. With 5-shot groups the average spread at 100 yards was 2.3 inches with the 32-grain load, 1.6 inches with the 34-grain load, and 1.95 inches with 37 grains. For all, the primer was the No. 115 W. and the seating depth was 7/16 inch. With lighter loads of midrange type many of these bullets had key-holed at 20 yards and were so consistently inaccurate Newcomb had decided to melt down the lot until he got the idea of boosting his loads up toward 2900 f.s.

Phil Fine suggests his method of pulling bullets after lightly tapping the case neck to relieve its grip somewhat. He holds the bullet, up to the case mouth, in a carpenter's brace, firmly, or just short of mutilating the bullet. Then, so held, he places the cartridge through the top hole, or die receiver, of his Pacific Reloader and easily pulls the bullet with a downward stroke of the tool handle.

IMPROVING THE ZIPPER

All shooters who own them praise the improved forms of the Zipper put out by Hervey Lovell, C. A. Hill, and others. One example of high repute in this class is the famous Marciante Bluestreak. Now, Harris Brader, of Vancouver, Washington, has informed us his customers praise his various wildcat Zippers which he makes both with abrupt and modified shoulders. He sent us samples, and we are showing them with others which typify this breed of cats. These wildcats, as a class, give fine ballistics, superlative accuracy, and adequate range and power without all the fuss and fury typical of larger cartridges.



Left to right: Factory .219 Zipper, Lovell Improved Zipper, Brader Improved Zipper, Brader Sharp-shoulder Zipper, Brader .25 Sharp-shoulder on the .30-30 case, and the famous Marciante Bluestreak in .22 caliber

Left to right: Factory .22 Hornet, Kilbourn Hornet Junior, Ackley .17-caliber on the .30 Carbine case, and the Service M1 .30 Carbine

P. O. Ackley told me Charley O'Neil planned a .17-caliber wildcat on the Hornet case and he had the barrel tools for a long time. About the middle of the year, Ackley made up a .17-caliber rifle by necking down the .30 caliber Carbine case. The bullet weighs about 30 grains and is driven at about 3000 f.s. initially. Bullets had to be made up and were rather crude, but they showed surprising accuracy as well as pleasing deadliness on jack rabbits and sod poodles. Ackley sent us a case at that time with the bullet seated as used and said its trajectory was very flat; presumably, over a reasonable 200 yards.

THE .30-30 AT 700 YARDS

A recent publicity release on the history of the .30-30 Winchester caliber, contains some interesting statements. The most interesting statement in the four-page release is the following paragraph, quoted in full, "With the new .30-30 Winchester you could kill a deer at 700 yards. That was the most important news about the cartridge to a sportsman or a bread-and-butter shooter who depended on his rifle for his living."

Now, if we were talking about the Western 180-grain bullet at 2700 f.s. muzzle velocity in the .30-'06 cartridge, I would not have questioned that 700-yard deer killing as a distinct possibility, because some of my friends have killed mule deer and goat with it over such extreme distances, although, actually, 700 yards is twice the effective range of the .30-'06 cartridge and rifle. That bullet loses about 200 f.s. over a hundred yards of flight, whereas the poorer .30-30 bullet loses 270 f.s. over the first hundred yards and would average about 200 f.s. loss per hundred yards over the total distance of 700 yards. The old .30-30 bullet started out at 2125 f.s., and the modern load in that caliber has only 2200 f.s. muzzle velocity as noted in the Winchester tables. It would have the muzzle velocity of our .45 A.C.P. Service Pistol bullet, or about 800 f.s., at 700 yards.

Even our better .30-'06 bullet, starting with an advantage of 500 f.s. and losing only 168 f.s. per hundred yards mean, would have only 1545 f.s. remaining at 700 yards; but not quite that much would be left if it were an expanding hunting type instead of the sharply pointed target type of 180-grain bullet. Now, I'll grant you that the loafing .30-30 bullet could conceivably kill a deer at 700 yards, in case it happened to hit a vulnerable spot, but to hit the deer any other place with that weak bullet would be unsportsmanlike, and to hit it at all would be a very great gamble, indeed. With perfect shooting you would have a group or spread of about six feet with which to contend, even if you held off exactly right for drift and drop. Even that better .30-'06 bullet, mentioned above, drops more than 17 feet in traveling 700 yards. The .30-30 bullet drops the height of a small deer, or four feet, at only 300 yards.

While admitting that the publicity claim was just within the bounds of a one-to-one-hundred possibility, I want to remind .30-30 shooters that their caliber was designed for killing deer and black bear in short-range cover where shots beyond 150 yards are practically impossible. Sometimes the .30-30 is tried at longer ranges, but rarely with success. The .30-30 boys in West Virginia had to take 300-yard shots at black bear in one area, and were frustrated until they went to the more powerful .30-40 Krag, .300 Savage, and .30-'06. In one bear, bagged later with these weapons, they found their futile .30-30 bullets imbedded in the fat under the animal's hide.

NEW .22 WILDCATS

After reporting on the Ashurst .22-'06, earlier this year, Harold Vaughn sent me a sample of Hervey Lovell's similar wildcat on the 7 mm. case necked to .22 caliber. Vaughn had fired it fifty times before he wrote me that time, saying he had lost only two cases in the reforming operation (by shooting). His Mauser was the pilot model, the first rifle made in Lovell's new wildcat caliber. For a capacity comparison, Vaughn said the new case held 50 grains of No. 2400 filled up to the shoulder slope whereas the .220 Swift held only 47 grains with half its neck filled.

The load adopted was 45 grains of No. 4350 with Sisk 55-grain bullets. Although these showed less drop up to 300 yards than did the Varminter, there were no indications of maximum pressure, and all fired cases extracted so easily that only one finger was needed on the bolt handle. The first groups indicated fine accuracy could be expected, but that had not developed nearly two months later with that particular outfit when Vaughn was trying to improve the performance of the outfit. Now, several months have passed with no further word about the Lovell .22-7mm. Magnum.

In the meantime, Vaughn reported some excellent long-range accuracy with his Gebby Varminter at 325 yards. All 5-shot groups at that test were well under a minute of angle. With Sisk 54-grain War Time bullets and 40 grains of No. 4350 the two groups measured 2¼ inches and 3 inches, center to center of widest bullet holes. With 38 grains of No. 4064, both groups measured 3 inches maximum spread at 325 yards. That is an amazingly fine and uniform performance for two different loads and four groups. They were loaded in rechambered Ideal tools and fired in a Target Grade Model 70 .220 Swift converted by J. E. Gebby. The barrel had been fired 1369 times.

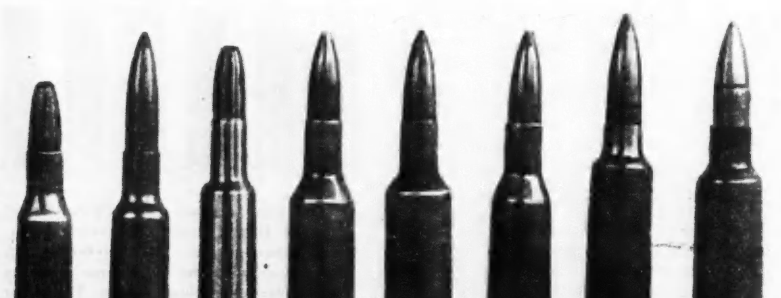
About 1½ months after learning about Lovell's wildcat I received another sample from T. K. Lee on the .257 Roberts case necked down by Jerry Gebby, who calls it the Senior Varminter. I like its design in general and particularly its conservative shoulder slope which, unlike many of its contemporaries, adapts it for factory production. After some limited shooting, with 46 grains of No. 4350 behind 55-grain bullets, Lee had four out of five in one hole at 200 yards and said, "the first tests showed plenty good accuracy."

The last report from T. K. Lee, several months later, followed much shooting, with a final test of 80 shots which made the barrel fairly hot without developing any metal fouling. The loads were 46.0 and 46.3 grains of No. 4350 behind 55-grain 8S and 60-grain Doering bullets. T. K. got his tightest groups with Doering bullets and liked the cavity-base best. The rifle was a Mauser with a Zeiss Zielvier mounted low by Griffin & Howe. With the impacts from ¾ inch to an inch high at 100 yards, they were right on aim at 200 yards, and only 4½ to 5½ inches low at 300 yards. He says Gebby head-spaced the rifle closely with practically no breech-space allowance. Lee seats his bullets deep to avoid touching the throat and inadvertently shoving back any abnormally blunt or big headed bullet. He believes his heavier load of 46.5 grains No. 4350 with No. 120 primer and wad under the 60-grain bullet develops 4000 f.s. All the 200-yard 3-shot groups, fired in his trajectory test, could be covered by a silver quarter.

The targets fired by T. K. Lee which I have measured show fine accuracy at all ranges, but better at 200 yards than at 100 yards, in proportion. The biggest five-shot group at 100 yards measures 1 1/16 inches. There is another of 1¼ inches with six shots, but one was called and the other five are in less than ¼ inch. The biggest 200-yard group measures 1 3/16 inches for its five shots, and the best group at that range was one of six shots in less than an inch spread. There is also an odd group of four shots fired at 195 yards which measures 1½ inches. On one target, I note that the 100-yard group was ⅜ inch above aim and the 200-yard group was only ⅝ inch below aim. Both Lee and Gebby are responsible for the Senior Varminter, although each gives the other the credit, and I cannot get a flat statement from either. I think it was Lee's idea and they developed it together. Like the Gebby Varminter, I believe this Senior Varminter will also prove, in time, to be one of our better wildcats.

In the last letter from T. K. Lee, he said he had given up on the cavity-base bullet in the Senior Varminter because it would do no better than 4-inch groups. That, of course, reverses his initial good opinion of these bullets reported after his preliminary tests. He also sent me a miracle composite target made by firing one shot at each range up to 400 yards. At 300 yards, he held at the top of the 12-inch black, and that much above the black at the longest range. Every shot fired at 50, 100, 200, 300, 400 yards, is a pinwheel and they are all perfectly centered on the figure "10" in the bull. The whole group can be completely covered by a half dollar. He tried it just that one time, and said he would not expect to do it so perfectly another time, but it does show that the Senior Varminter has "something on the ball" and that T. K. surely knows how to use a superb varmint-shooting combination.

Left: Lovell .224 Magnum on the 7 mm. case. Right: Gebby Senior Varminter on the .257 Roberts case



Left to right: Factory .257 Roberts, Ackley Improved .257 Roberts, Ashurst .25-.30-'06, Ackley .25 Magnum, Astles .25 Magnum, Gipson .25 Magnum, McCrea .25 Magnum, Miller Magnum

LONG RANGE VARMINT STUFF

More than fine accuracy and high velocity is needed for dependable hitting of crows, hawks, chucks, ground squirrels, and sod poodles at long range. As the big-game shooter needs sectional density for adequate penetration, the coyote hunter needs the same good bullet feature for an adequately flat or straight trajectory in both planes. That is, his bullet flight must not curve too much in either direction for reliable hitting. His bullet must be long enough per caliber to mitigate the sidewise effect of wind as well as the vertical influence of gravity. The greater the bullet diameter the longer and heavier a bullet must be for equal sectional density. The minimum weight to be considered at all is the 55-grain in .22 caliber and the 70-grain in .25 caliber. Both have the extremely low sectional density of under .160; or .158 and .152, respectively. A 63-grain bullet in .24 caliber and one of about 57 grains in .228 caliber would fall into this same low-density class.

For our long-range varmint shooting any bullets lighter per caliber than these would not be worth considering, and heavier bullets must be sought for shooting in windy weather. In .224-inch barrels, the 65-grain is the heaviest practical bullet. Its density of .186 equals that of an 86-grain bullet in .257-inch barrels, and we would hardly choose for our special

purpose a bullet as light as the 87-grain in .25 caliber. Unfortunately, most .224-inch varmint rifles will not handle bullets as heavy as 60 grains in any suitably pointed shape. This bullet has a sectional density of only .172 which equals that of the 63-grain in the .228-inch barrel and the 75-grain in .240 caliber. For any real improvement we must go to the 70-grain bullet of the .22 High Power Savage and its S.D. of .192 in .228-inch barrels. In the .228 Ackley Magnum we can give this bullet sufficient velocity to equal the trajectory of the .220 Swift and thus make it practical for our purpose. In this latter cartridge we can also use an 80-grain bullet with a sectional density of .219, which equals the .217 S.D. of the 100-grain .25 caliber bullet. If we should go to a 90-grain in the .228 caliber, as Newton did, we would have an S.D. of .245, and it would take more than a 112-grain in .25 caliber to equal it.

Some varmint shooters prefer to go higher, and that accounts for the popularity of the .25 Magnums. A 117-grain .25 caliber bullet has a respectable density of .253 which is beyond the reach of any .22 caliber bullet, but which is slightly surpassed by the .260 S.D. of the 105-grain bullet in the special .240 caliber. The maximum in the .25 caliber is 125 grains weight whose S.D. of .273 is more than equalled by the 112-grain bullet in .240 caliber. However, extremely heavy bullets need Magnum velocities.

In the .224-inch Swift and Varminter, the heavy-bullet limit of load is 40 grains of No. 4350 powder behind bullets which range from .158 to .180 in sectional density. In the .228 Ackley Magnum the regular load is 45 grains of the same powder and a bullet having an S.D. of .192. In the .250 Savage, the regular Swift load of 38.5 grains is used behind bullets having an S.D. of .217. In the .257 Roberts, the regular load of the .228 Ackley becomes the maximum behind bullets having the greater S.D. of .253, indicating the capacity advantage offered by the .25 caliber. In order to get sufficient velocity for the long-range purpose the gunsmiths have improved the standard cases by reshaping. Some of these .25 caliber conversions go way beyond that into the Magnum field with their belted Magnum cases necked to .25 caliber. Examples are: the Ackley, Astles, Gipson, McCrea, and Miller belted Magnums, all shown in a group for comparison, and, in another group, the factory and Ackley Improved .257 Roberts and the Ashurst .25-'06.

CHANGING THE SWIFT

The .220 Swift is a good factory cartridge, but the boys insist upon changing its case in order to get more power or greater loading flexibility. Ashurst gets nice results with the .30-'06 case, as does Ackley, and Wotkyns thinks his ballistics approach 4000 f.s. with the 63-grain bullet in his .30-'06 PMVF. However, the Swift has a modern strong-webbed case, and many experimenters prefer it for that reason and because its capacity is adequate for their needs with .22 caliber bullets. One of the more famous conversions of the Swift is the Wotkyns-Wilson Arrow which is well liked by many varmint shooters. Carl Nix has a good one on this case which closely resembles the Arrow and shoots phenomenally flat up to 400 yards. Recently, we mentioned the Weatherby Swift with its Kilbourn-type shoulder and special capacity for No. 4350 powder. Weatherby decided the shoulder was too abrupt to be safe enough for all comers, and he improved it with a 30-degree slope and cut its body taper to .020, or half that of the Swift. Finally, there is the shortened .220-30, developed by Marciante, Nix, and Barr, which seems to duplicate the ballistics of the factory cartridge. All these are shown in the accompanying cut, standing side by side for direct visual comparison.

In redesigning his Swift case, Weatherby increased its capacity for practical loads. However, he also freebored the barrel for ¾ inch ahead of the chamber, which precludes direct comparison on any equal basis. In the abrupt-shoulder version, loads above 42 grains No. 4064 gave excessive pressure. In the new version, 43 grains are regular in performance. This load gave inch groups per hundred yards, and Weatherby considered his ".220 Rocket" superior to the .220 Arrow. I agree, in one respect, with this opinion, because factory ammunition can be used in Weatherby's converted rifles, which fact gives it a great advantage over the Arrow and other conversions which do not provide for the convenient use of factory loads.

Left to right: Factory .220 Swift, Nix Improved .220 Swift, Weatherby Improved Swift (the ".220 Rocket"), Weatherby Sharp-shoulder Swift, Wotkyns-Wilson .220 Arrow, Barr-Nix .220-30 on the .220 Swift case

Both of Weatherby's jobs give 1½-inch groups with factory Swift loads, and the cases do not split in reforming. In the Sharp-shoulder version, the 60-grain bullet gave 1½-inch groups with the normal load of 42 grains of No. 4350. The accurate load, however, was 41 grains of No. 4064 in that rifle, although it is only fair in the new 30-degree job. Both give 25 per cent greater penetration in steel than the 55-grain factory load.

Everybody is interested in chronographed velocities, and we have been holding the Weatherby dope until he could get his outfit organized. As it is now, it gives slightly under factory figures, at 53 feet, for the .30-'06, .270 Winchester, and .220 Swift and therefore it should give conservative results with handloads. The factory Swift registered 4106 f.s. within 15 f.s. for ten consecutive tries, which indicates adequate uniformity. In the Rocket chamber the factory load dropped to 3920 f.s. With handloads in the Rocket case, behind the 55-grain bullet, the following results were obtained: 44 grains No. 4350, 3650 f.s. and 46 grains, 3904 f.s.; 44 grains No. 4064, 4072 f.s. and 45 grains, 4188 f.s. and 46 grains, 4310 f.s.; 45 grains No. 4320, 3963 f.s. and 46 grains, 4095 f.s. With the 50-grain bullet, 44 grains of No. 3031 gave 4335 f.s. The charge of 46 grains No. 4064 was on the maximum side, and began to show signs of pressure.

TRADE DOPE

Sedco Safety Ear Protectors. George W. Fuller, of Downey, Calif., sent me samples of the most interesting ear protectors I have seen. Designed for war workers in noisy plants they permit unhampered conversation while excluding undesirable sounds. They are pierced for this purpose and they fit well into the ear, being of a soft flexible substance like rubber. Requiring lubrication with K-Y jelly or Lubafax before insertion, they come in pairs in a 3-hole plastic container, the middle hole serving as a receptacle for the lubricant.

* * *

Smiley Cartridge Case Trimmer. Dr. G. Thos. Smiley, of San Fernando, Calif., sent me a sample of his standard shell trimmer. It was quickly set up and made a very neat and convenient arrangement. I liked the handle better than some I have tried and found uncomfortable. The tool is adjusted with a dummy case in position and will then duplicate its length by automatically trimming all other inserts of the same caliber. The cases are fed to the cutter by spring tension which also keeps them in the holder. Other holding plates and pilots are easily substituted for other calibers. I think we are going to like it.

* * *

New Bore Lighting Device was designed by Charles S. Hoy, of Ardsley, N. Y., with fine wires of bell cord size for attachment to any single flashlight cell or other low-voltage dry cell. The idea is a good one and seems to have possibilities with numerous applications.

* * *

New Electrolytic Brush has been developed by Warner Electric Company, Chicago 1, Ill., for employment with their electroplating compounds, available in gold, silver, nickel, copper, cadmium, and chromium. Designed for small jobs unsuited to the industrial tank method, it can be used for brand plating or even for plating dies and small bearings against permanent wear (through repeated replenishment) according to the makers, who welcome requests for descriptive literature.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (examples: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—exception; a phrase such as "write for catalog" or "details on request" may be used when listing quantities of similar merchandise or real estate.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside, and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privileges. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including individual sales of used firearms and ammunition. Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These included machines or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks*.

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing. Spell out all descriptive words; avoid abbreviations.

15. Closing Date: The closing date for all advertisements is the 5th of the month preceding month of issue. However, the *volume* of advertising we can publish monthly is limited and the quota is usually filled prior to the closing date. Ads will be accepted in the order received.

FOR SALE

FOR SALE—32 POWER VION SPOTTING SCOPE, leather slightly discolored, metal perfect. $20.00. 410 gauge Cutts compensator new, skeet & mod. tubes, $18.50. F. E. Britton, Keene, N. H.

FOR SALE—BEAUTIFUL CUSTOM 6½ BALlard 22 L.R. with 8 power Fecker scope, very good. $125.00. Harold Lyon, 125 Howard St., Findlay, Ohio.

SPECIAL SELLING, BRAND NEW HARRINGton & Richardson Mark II revolvers, 6 shot, 32 S&W caliber, 4" barrel, fixed sights, blued, top-break, double action model made in 1940. No. 4 grips, 9" overall, weight 23 ounces, complete with 50 cartridges, open top leather snap holster, cleaning brush, only $32.95 (below pre-war price). Cash, C.O.D, or trade in your old gun, immediate delivery, examination privilege, money back guarantee. Klein's Sporting Goods, 504 RE South, Halsted, Chicago 7.

NEW GUNS: HERE'S HOW TO GET YOURS first. Trade in your used rifles, shotguns or handguns to receive Klein's liberal trade-in allowance priority certificate (redeemable for cash if desired), entitling you to first preferred rating and credit towards purchase of new Winchester, Remington, Marlin, Smith, Ithaca or any other gun the moment released. Because Klein's is America's Foremost Gun Dealers, you're guaranteed top trade-in allowance and prompt delivery. Write today, while used guns are still in demand, fully describing yours. Klein's Sporting Goods, 504 TE South Halsted, Chicago 7.

SPECIAL COMBINATION OFFER: "THE GUN Digest." As essential to the shooter as his gun, not a catalog, but the most complete, authoritative, encyclopedic volume on gun lore ever published, every current American rifle, shotgun, handgun fully described, brilliantly illustrated, crammed with hunting, shooting secrets, techniques of experts, 164 pages, 629 illustrations, 25 sections, first edition copy of "The Gun Digest" (while they last) plus Klein's 8 page bargain list of available new and used guns, only $1.00 (plus 10¢ for postage, handling). Money back guarantee. Klein's Sporting Goods, 504 E. South Halsted, Chicago 7.

FOR SALE—.257 BUHMILLER BARREL, WAFfenfabric Mauser action, Mannlicher type cheekpiece stock, 330S Weaver, Pike quick detachable mount, perfect inside, excellent outside, ammunition, $175.00. Accept excellent 12 gauge automatic part payment. Walter Carpenter, Eureka, Montana.

FOR SALE—WINCHESTER MODEL 70 HORNET, medium heavy barrel, sights, Lyman 77 front 48 rear with Parker Hale disc-telescope mounts, sling with adjustable forehand plate, condition excellent, price $99.00. Write N. B. McLean, 106 Nostrand Ave., Brooklyn, N. Y.

FOR SALE—AUTO BURGLAR ALARMS, FOOL proof, reliable, easy to install, fits all cars, $2.00. Penn Auto Stores, 22 S. Main St., Mansfield, Ohio. 5-44.

FOR SALE—PATENT PROTECTION. INFORMAtion and Invention Record Free. Randolph & Beavers, 370 Columbian Bldg., Washington 1, D. C. 12-45

FOR SALE—EXCELLENT REMINGTON-HEPburn .38-55, custom Oregon Myrtle stock, 48L rear, reloading tool, mould, primers, cases ammunition, etc., all, $80.00. Enfield Sporter stock, excellent, $10.00. Enfield Stoeger oil finish stock very good, plus $22.50. .45-70-500 Winchester mould, good, $3.50. 1886 Winchester .45-70 good in, excellent out, ammunition $40.00. 30-06 full length sizing die, excellent, $4.50. Want .45-70 Ideal muzzle sizing die. Jack Jenkins, 206 So. Wilton, Los Angeles 4, California.

FOR SALE—WINCHESTER MODEL 70 SUPER grade 375. Peep sight Griffin & Howe mount, beautiful stock with standard dimensions, practically new, in perfect condition, also six boxes 300 grain cartridges $220.00. Write Maurice S. Miller, 1500 Cortland St., Chicago 22, Illinois.

FOR SALE—GENEROUS REWARD—FOR INformation helping me to locate and purchase Antique Firearms collections. Prompt, honorable dealing. James Serven, Santa Ana, Calif. tf.

FOR SALE—ANTIQUE AND USED FIREARMS moulds, tools, accessories, cartridges, send 10¢ for catalog. H. A. Brand, 1008 Ingalls Building, Cincinnati, 2, Ohio. 5-45

IF YOUR MAGAZINE IS LATE

Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal-uniform deliveries. Only a return to normal conditions can remedy this situation. Meantime, you have our assurance that when your copy arrives late, the same issue is probably being delivered late to all other subscribers. We ask that you wait until the 20th of the month before reporting non-receipt of the current issue.

FOR SALE—WEAVER SCOPES, MODELS 330 T mounts $31.00, model 440 B mounts, $41.00, Crosshairs or posts, new. Percy Hoffman, 36 South 4th St., Harrisburg, Penna.

FOR SALE—30 CALIBER LUGER, GOOD SHAPE, 2 boxes shells, $75.00. Wm. C. Hamm, R. R. #3, Medford, Wisconsin.

FOR SALE—.38 SPECIAL WADCUTTER REloads, $4.00 per hundred in 500 lots, $3.50 per hundred in 1000 lots. .45 Colt automatic cartridges $4.50 per hundred with Lubaloy bullets. Colt Camp Perry 10" pistol perfect, $35.00. Johnson-Winchester late model 52 in new condition with 4500 rounds of .22 L.R. Winchester cartridges, Johnson test averaged 1.02 inches at 100 yards for 60 consecutive shots price, $150.00. Send stamped envelope for reply. Lawrence Nuesslein, 3011 Greenleaf St., Allentown, Penna.

FOR SALE—STEVENS WALNUT HILL 22 CALIber target rifle, Schuetzen Butt plate, trigger shoe, Lyman 48 receiver and 17A front sights, very good condition, asking $70.00. Will swap for equal in double barrel 12 gauge shotgun. Bausch & Lomb N.R.A. spotting scope, 19.5X, excellent, $70.00. L. Melancon, 7328 Hickory St., New Orleans, La.

FOR SALE—U. S. SPRINGFIELD, M1922, GOOD, .22 caliber Lyman 48, scope blocks, good, nearly new, Unertl 1" objective scope with spring, $95.00. John Donaldson, Member, Box 342, Alexandria, Minn.

FOR SALE—H&R REISING .22 AUTOMATIC rifles with sling and 200 cartridges, $69.00. Additional cartridges extra. Jos. L. Escude, Jr., Mansura, La.

FOR SALE—.357 S&W MAGNUM, 3½ BARREL, King quick draw sights, 50 cartridges, fired few times, perfect, $100.00. Colt Woodsman 6½, perfect in, excellent out, $65.00. First money order. George London, 317 North Hillside, Wichita, Kansas.

FOR SALE—H&R REISING .22 CALIBER AUTOmatic rifle, brand new, never used and in original box, price $62.50 money order, please. George G. Taylor, Canaan, New York.

FOR SALE—REMINGTON 31, 12 TWO BARRELS 26" imp. cyl. rib, front and middle sights, extension forearm, 30" full, plain, new, $125.00. N. J. Fago, Florence, Alabama.

FOR SALE—BELDING & MULL 3X HUNTING scope with mounts, good $32.50. Hi-Wall Winchester 26" medium heavy barrel relined and rechambered for .22 Hornet, very good inside, good out, no sights, $35.00. Colt Match Target, perfect inside, very good out, original factory grips and beautiful set of white grips with thumbrest holster and 500 L. R.'s, $80.00. Fine custom single shot .22 L. R. Stevens single shot #44 action, double set triggers, fancy cheekpiece stock, large forearm, Vaver tang peep, Lyman #77 front. More details if interested, price $80.00. J. L. Vincent Sporting Goods, Aud, Missouri.

FOR SALE—MODEL 40-06 SAVAGE WITH REDfield mount & Zeiss Zielklein scope both perfect inside, $140.00. Hyphos 8X binoculars optically perfect, $45.00. Winchester 32-20 lever action v.g inside & out, $45.00. Winchester 410 pump gun perfect inside, v.g. out, $60.00. Ed. Ragle, Rt. #8, Box 4, Fresno, California.

FOR SALE—COLT REVOLVERS FOR COLLECtors, many rarities, list 20¢. Wm. Locke, 3607 Ault Park Rd., Cincinnati 8, Ohio. 1-45

ANTIQUE LONG GUNS FOR COLLECTORS AND shooters, military and sporting, Kentucky flint and percussion, Colt, Roper, Perry, many rarities, list 15¢. Wm. Locke, 3607 Ault Park Rd., Cincinnati 8, Ohio. 1-45

FOR SALE—ADULT BOOKS FOR YOUR PERsonal library, illustrated sample and catalogs, 10¢ Alstone, 304, Lunenburg, Mass. tf

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalog 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

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GIANT CHINCHILLA RABBITS. VALUABLE fur. Delicious Meat. Easily Raised. Pleasant Pastime. Tremendous Demand. Small Investment Large Profit. Willow Farm, R82, Sellersville, Pa tf

FOR SALE—NEW, EXCELLENT SPRINGFIELD .45-70 M1884 with bayonet, tools, box old ammunition, $20.50. Good Civil War Spencer repeating carbine, box old ammunition, $14.00. L. R. Henry 329 Ivyrock Lane, Upper Darby, Penna.

HERE'S A BARGAIN IN AMMUNITION. 25-35 117 gr. $1.00 box in lots of 10 boxes or more. 270's 150 gr. $4.50 per box lot of 10 boxes or more. Send money and I will ship express well packed. Thomas Gilboy, R 909 W. Market St., Scranton, Penna.

FOR SALE—1 WINCHESTER M70, 30-60 BULLgun, with scope blocks, Vaver front sight, & fleece lined case, excellent condition, $168.00. Wanted 1 Redfield Junior mount, model Jr. 6 only. M. H Hollis, 38 Westmoreland Ave., Longmeadow, Mass.

FOR SALE—12-30 DOUBLE HAMMER, HANover Arms Co. Belgium Damascus Barrels, collection item, original brown finish, p.g. very good, $27.00 Boyle, 408 Northway, Baltimore 18, Md.

FOR SALE—SAVAGE 99EG, .300, PERFECT, 92 factory cartridges, fired eight rounds, $90.00. George Stidworthy, Netcong, N. J.

FOR SALE—MAUSER 8MM. ACTION, $25.00 William F. Kimball, 42 Hopedale St., Hopedale, Mass.

FOR SALE—REMINGTON 300 AUTOMATIC EXcellent, special grade, 60 cartridges, extras, $150.00 Write for description. C. H. Ellis, Jaroso, Colorado

FOR SALE—COLT AND REMINGTON CAP AND ball revolvers, muzzle loading rifles, etc. A request brings list. E. C. Ward, 406 Wilcox Bldg., Los Angeles, 12, California. 2-45

PERCUSSION CAPS, BLACK POWDER, BIRD & buck shot, flints, we stock them all. #11 Remington caps, $2.85 per 1000, express collect. Black powder, F. FF or FFFg in 6¼ lb. cans, freight, only $4.00, 25 lbs. $12.50. Bureau of Mines license required. We endorse, record and return this document. Bird shot, sizes 3,4,5,6, and 7½, soft, 5 lbs. for $1.00, 25 lbs. for $4.75; chilled, 4½ lbs., $1.00, 25 lbs. for $5.00; specify express or freight; sold FOB. Buck shot, sizes .27, .30, .32, .34, .36, .375, .40, .42, .43, .44, .48, .50, .53, .58, .64, .65, .66 and .68, 5 lbs. $1.00, 25 lbs. $4.75, FOB. Minie bullets, .575, lubricated, $3.25 per 100. Powder measure charger, with funnel, adjustable from zero to 100 grains, $3.50. Nipple wrenches, pistol, rifle, musket 75¢ each. English flints, pistol, rifle or musket, $1.00 per dozen, books Roberts' 2nd edition Cap Lock Rifle $6.00; Cline's Muzzle Loading Rifle $7.00; Baxter's for Beginners only 85c, each dealing with muzzle guns. Join THE NATIONAL MUZZLE LOADING RIFLE ASSOCIATION and receive monthly 20-24 page publication, MUZZLE BLASTS. Fee for both $1.50 per year. Learn about the revival of interest in the early guns of our nation. E. M. Farris, Secretary, RR YMCA, Portsmouth, Ohio. tf

DUPONT, HERCULES, UNERTL, FECKER, Weaver, Redfield, Stith, Sisk. Stamp for folder. Louis Rinquette, Shooters' Equipment, Grants Pass, Oregon. 3-45

FOR SALE—TWO COLT AUTOMATICS IN PERfect condition, never fired, $75.00 each. Leonard H. Samworth, P. O. Box 1268, Huntington 14, W. Va.

LYMAN

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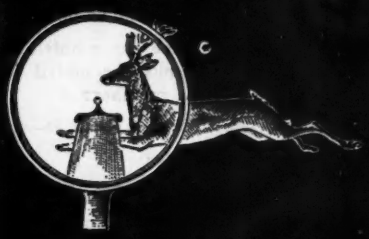

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The accepted use of aperture rear sights on military rifles in this war predicts a wide demand for similar sights by sportsmen after the war. Lyman has pioneered in designing and adapting aperture sights to sporting and military rifles for many years. In the days to come, the newest developments in Lyman Aperture Sights will represent the best value in sights made for shooters by shooters.

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CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate, fully equipped with speedy ball-bearing wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minn. tf

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FOR SALE—SPEER-HORNADY BULLETS FOR Lovell, Hornet, Swift, etc., .224 diameter, 40, 45, 50 and 55-grains weight, $2.25 per hundred, $22.50 per thousand. Postpaid to you. J. W. Hornady, 624 South Monroe St., Grand Island, Nebraska.

FOR SALE—DEALERS, GUNSMITHS, WEAVER T Mounts, new with attaching screws, 3 for $5.00; 7 for $10.00, your assortment. S. A. Wentling, Palmyra, Penna.

FOR SALE—NEW CATALOG OF ANTIQUE AND Modern Firearms—Send coin 25¢. Springfield Army rifle slings 1¼" used, fine condition. Can furnish any quantity, 75¢ each. Webbing slings 1¼" wide, used good condition, 45¢ each. Whelen oiled rifle slings, 1" brand new, $1.50. Whelen rifle slings straps 1¼" brand new, $1.75, swivels 75¢ pr. Springfield sight gauges, $1.00. Brass clips for .30-'06 cartridges, $1.25 per 100. U. S. Army Military Haversacks, fine condition 60¢. Colt boot hooks for riding boots, 60¢ pr. 45 automatic pistol holsters, brand new, leather, $3.00 each. Brown leather Army Officer's Garrison belts, new, all sizes, $1.65 each. Black leather Sam Browne belts for officers and guards, new, all sizes, $5.95 each. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R-75, 13 S. 16th St., Phila. 2, Penna.

FOR SALE—WEAVER 330, NEW, $30.00. 440, new, $35.00. Stith mount for Model 70, $12.00. Redfield mount for Model 70, $12.00. Truline Dura-Aluminum Bridge Type Mount, $12.00. Roy E. Weatherby, 7672 California Avenue, Huntington Park, California.

FOR SALE—WESTERN FIELD 410 GAUGE HAMmerless double, perfect inside and out, oil finished stock, 100 shells. Bargain at $35.00. Charles Roth, 2884 Ash, Denver, Colorado.

SHEATH— A NEW, EXTREMELY SUPERIOR RUST PREVENTIVE FOR YOUR GUNS

As a result of the war the Armed forces requested the manufacture of a rust preventive oil which would withstand rain, salt spray, high humidity over extended periods of time. An oil which was easily applied, would not gum the works of the finest guns, and could be applied even after the gun had become wet with rain or salt water and still prevent rust.

Sheath is such an oil. It is ideal for the most particular shooter as well as for the shooter who uses his gun in the roughest possible manner. Whether it be salt marsh or lake, rain or fog, Sheath does as its name states: Provides your gun with an impregnable sheath of thin, tough film which is not a smeary grease but a fine smooth protection to your arm.

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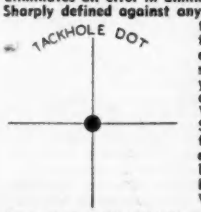

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FOR SALE—LEITZ RANGE FINDER, 3000 YARD range. 18" long, weighs about 20 oz., leather carrying case, excellent, $150.00. Roy E. Weatherby, 7672 California Avenue, Huntington Park, California.

FOR SALE—COLT AND OTHER CAP AND BALL revolvers in shooting order, send stamp for list. Kimball Arms Company, Woburn, Mass. tf.

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List. Stamp. Ed Howe, Coopers Mills, Maine.

SELL YOUR SINGLE SHOT RIFLE TO "SINGLE-Shot" Ratliff, Hillyard, Washington, describe fully, price asked.

FOR SALE—TOPATCO STORMPROOF SLEEPing bag, excellent plus, $40.00. F. J. Higgins, Pleasantville, N. Y.

FOR SALE—B.S.A. .22 MATCH RIFLE, 48 LYman rear, Watson front, scope blocks, inside excellent, outside fair, $40.00. 32 Colt automatic, very good, $30.00. 32 Savage automatic, very good, $25.00. Winchester Hi-Wall .40-82, very good, Lyman sights, $28.00. B&M, bullet puller head with .25 and .30 jaws, $3.50. 38-56 Winchester loading tool and full length die, $4.50. 25-20 Ideal tool, mould attached, no decapping pin, $3.50. Ideal #3, .25-20 tool, $4.00. Winchester .25-20 tool, $3.50. Winchester .25-20 SS tool, $3.50. Winchester .32-40 tool, $3.50. Ideal #3 .38-55 tool, $4.00. Ideal #6 .38-55 tool, mould attached, $4.50. Ideal dipper, $1.00. 90, .45 Colt, inside primer cartridges, $1.80. 79, .45 Colt Frankfort Arsenal 1910, cartridges, $2.40. 275, .25-25 Stevens, factory load, $8.00 per 100. 400, .22 Hornet fired cases, $2.00 per 100. 90, .25-21 fired empties, $1.80. 328, .25-21 primed empties, $3.00 per 100. 245, .30 150-grain C.N. bullets, $3.00. 1,000, .25 gas checks, $2.00. 1,000, .30 gas checks, $2.00. Winchester .38-55 mould, $4.00. Ideal .38-55 mould, $3.50. Winchester .38-40 mould, $4.00. 25-20 Ideal Perfection mould, adjustable for different length bullet, point cut off, $5.00. As above, .33 caliber, $5.00. Ideal #257283 mould, $4.50. Ideal #257312 gas check mould, $4.50. Ideal 86-grain .25 mould, $4.00. Winchester 86-grain .25-20 mould, $3.50. The following Ideal mould blocks $4.50 each: #257420, #25720, #257418, #257388, #257231, #32359. T. J. Cooper, Route 7, Meadville, Penna.

FOR SALE—HARRY POPE .22 CALIBER Scheutzen presentation rifle, receiver engraved, presented to Mr. Ittel in 1908, by Stevens Arms Company. Nearly unfired condition, $300.00. Two 45 Colt Frontiers smooth bored by Dalrympal, good, $30.00, each. Write your wants. Have 500 guns. H. W. Cleveland, P. O. Box 828, Crestline, California.

FOR SALE—WINCHESTER 52, HEAVY BARrel Monte Carlo stock, checkered, Buffalo tip, Vaver extension rear, hooded front sight, shot 100 rounds, original stock included, excellent, $125.00. Winchester 52 Semi-Sporter checkered, Buffalo tip, Lyman rear sight, hooded front, very good, $80.00. R. Bittner, Rt. #5, Norwich, Conn.

FOR SALE—6.5 MANNLICHER SCHOENAUER Sporter, complete with Noske mascot 3x scope and mounts. Fine walnut cheek rest stock, 6 boxes hunting ammunition, all excellent to good. Harry W. Roe, 16 North 34th St., Billings, Montana.

FOR SALE—S&W REVOLVER 6" BARREL, 38 Special M&P, perfect, 2 boxes shells, $50.00. F. J. Shotwell, Martelle, Iowa.

FOR SALE—BROWNING OVER UNDER, ABsolutely perfect inside and out, $175.00. Colt Woodsman Target, new, never fired, $75.00. W. W. Arnold, R.R. 10, Dayton, Ohio.

FOR SALE—FANCY ENGRAVED PETERSON 22 Ballard, excellent, strictly Schuetzen, $125.00. Winchester Hi-Side, improved Lovell (Ackley) cases, components, very good, $65.00. 40 caliber Remington Hempburn double set trigger, $12.00. 40 caliber percussion by L. Biddle, very accurate, target sights, $50.00. Further description for stamp. WANT—Jordan Press, perfect, Magnum type, dies for Bee, Zipper, any others. Winchester Hi-Side or Stevens 44½ double set trigger, center-fire action, Sharps Borchardt action .25 and .30 caliber hunting bullets. W. E. Long, 637 Carroll St., Akron 4, Ohio.

FOR SALE—SPRINGFIELD NATIONAL Match #954539, Type "C" P.G. stock, Lyman 48, inside perfect, outside very good, $75.00. 1940 M2 issue ammunition, $6.00 M. 52W Speedlock, new factory installed barrel, Smith trigger, custom made scope height stock, scope blocks, perfect, $80.00. Litschert 6 x 1¼ scope optically perfect, mount blueing wear, $55.00. Earl Hall, 723 Taylor Street, Topeka, Kansas.

FOR SALE—DECAPPING AND CLEANING tool for .30-40, .30-'06, .38 caliber cartridges complete with cabinet, $5.00. EMG .22 caliber blank pistol, very good, $4.00. Krag bayonet and scabbard, $5.00. Mauser bayonet and scabbard, $5.00. Springfield bayonet, $4.00. Austrain Steyr 8mm carbine with bayonet, sling and one box ammunition, very good, $40.00. Krag military rifle .30-40, good, $35.00. 35 Whelen barrel, very good, $15.00. Dreyse automatic, good, $30.00. Binoculars, Petain 8x7, $40.00. Springfield bolt, $6.00. Krag bolt, $5.00. WANTED—8mm Lebel ammunition, money orders only. Vincent Conigliaro, 155 Canal Street, New York 13, N. Y.

FOR SALE—SCHMIDT, SHOCKEY AND BELDing & Mull reloading tools, moulds, dies and components. Ammunition at OPA approved prices. Stamp for description. S. S. Clark, 3024 Alabama Avenue, Minneapolis 16, Minn.

ANNOUNCING NEW BOOKS BRIDGING DEcided gap in arms reference works. Authored by collector-experts acknowledged leaders in respective fields: "Firearms of the Confederacy," Claude Fuller & Richard Steuart: $12.50. "Smith and Wesson Handguns," Roy McHenry & Walter Roper: $7.50. "Hand Cannon to Automatic," Herschel Logan: $5.00. No splashy ads or fancy talk so we feature efficient service. Reed Thompson, Jr., Lewistown, Pa.

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Two silver stars adorn his shoulder straps today—but he remembers the day when he had time for an occasional hunting trip. He remembers the Weaver 330 Scope that helped him to bag game through tricky underbrush, in bad light; and when he sees an American sniper with a Weaver 330 on his rifle now, it makes him homesick for the feel of a cherished gun and that trusted Weaver Scope. The general realizes the Weaver 330 issued to army snipers is now doing a magnificent job, and he's hoping for another hunting trip when this war is won!

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Six interchangeable choke tubes make your shotgun an all-purpose gun, every thing from skeet to long range ducks.

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FOR SALE—25-20 WINCHESTER, 92, POOR, $10.00. 25-20 Marlin, 94, fair, tang peep, $20.00. 22 Winchester auto, model '03, good, $30.00. Keystone 16mm, Model 81 movie projector, like new, glass bead screen, 4 reels travel film, $100.00. Bert N. Darrow, 415 College, Stuttgart, Ark.

FOR SALE—WINCHESTER 40, 12-30" FULL, 500 Remington Nitro #6's, $175.00. 52 H.B. 17a plywood case, $68.00. Weaver 29S T7 mount, $18.50, all perfect. Colt 32 auto, 100 shells, holster, excellent, $40.00. 52 Standard 10X Malcolm scope, 10X Imperial coat, 46, plywood case, extras, excellent, $115.00. Good Iver Johnson 38, 10 boxes .38 S&W, $42.50. Ernest Juola, Eveleth, Minn.

FOR SALE—EXCELLENT COLT P.P. 38 SPEcial, Franzite grips, holster, 100 rounds, $39.00. Colt 45 automatic, excellent, Franzite grips, Lawrence holster, 100 rounds, $59.00. Colt Target Woodsman (not Match), excellent, adjustable sights, thumb rest grips, holster, 200 rounds, $65.00. WANT—Old 45-7" Frontier. J. L. Shull, Tyler, Texas.

FOR SALE—PACIFIC RELOADING TOOL COMplete with extra dies for .30-'06, .38 Super, .38 Special, scales and shell trimmer, bullet lubricator with extra dies, Ideal Measure, 3 Hensley moulds, gas checks, primers, powder, brass, perfect, $225.00. Money order. Dr. Averbach, Medical-Professional Bldg., Corpus Christi, Texas.

FOR SALE—COLT FRONTIER 22 ON 45 frame, excellent; 100 L.R. shells, $55.00. George E. Ridgway, 88 N. Wabash St., Wabash, Indiana.

FOR SALE—.45 COLT AUTOMATIC, PRACtically new gun, Heiser holster, box cartridges, only $60.00. Roth, 2884 Ash, Denver, Colorado.

FOR SALE—BAUSCH & LOMB, 6 X 30, BINOculars, individual focusing, excellent, $100.00. S. Doppelt, 363 Shepard Road, Mansfield, Ohio.

SPRINGFIELD '03 #1,182,315, MILITARY LYman micro., excellent, $65.00. Krag .30-40, cut-down Sporter, very good, shells, $45.00. F. J. Higgins, Pleasantville, N. Y.

HERE'S A TIP! FINE POPE, SCHOYEN RIFLES will be museum pieces some day and very valuable. Paul Ratliff, Hillyard, Washington, is offering his best in this issue.

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A special oil is now available to protect your gun. It may be applied even to a damp gun after use as it gets under the moisture and forms a protective film. A really different oil that actually displaces moisture. The name is "PROCTOIL."

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Again, with another year of war behind us, we thank our thousands of loyal customers for the mighty fine volume of business we have enjoyed in 1944. Let us hope that the coming year will see your sons and brothers (and our boss) returned to civil life. With the coming of the New Year we again renew our pledge to you—Prompt, Satisfactory Service—or your money back!

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We want to thank our many friends for the business sent our way and wish them a happy New Year and much success in 1945. We hope your war efforts bring victory, so that all of us can meet on the rifle and pistol ranges once again and shoot for sport.

Our sales are well above those of normal years in spite of the scarcity of many items. We can still supply many of your shooting needs. Write us.

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First class; knowledge of most modern guns required. Good position, permanent, nice environment. State availability, experience, etc., first letter.
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FOR SALE—BULLETS: 30 CALIBER 150-GRAIN Spitzer metal cased bullets @ $2.00 per hundred plus 25¢ postage. New bullets that were smoke and water stained but recleaned, serviceable as new. Sample for stamp. Discount on large lots. H. E. Preece, 421 Quinn Court, Needles, California.

FOR SALE —22 HI-P 99 SAVAGE, TAKEDOWN, 1½ boxes shells, good, $40.00. 32 Colt Police Positive, Stag grip, 23 shells, good, $25.00. Winchester 92, .25-20 action, very good, $12.00. Three boxes 40 Winchester self-loading shells. TRADE—For .257 Roberts shells or sell. No checks, money order please. Jesse Huffman, Riggins, Idaho.

FOR SALE—LOW-WALL K-HORNET, VERY good, unfinished stock, good, scope blocks, $30.00. 22 WAF Winchester 68, inside perfect, outside good, $7.00. 45-70 carbine perfect inside, outside very good, stock good, $10.00. WANTED—7.63 Mauser barrel, firing pin, bolt stop. Paul Clark, 481 Finley St., Dubuque, Iowa.

FOR RENT—225438, 257312, 228367, 257388, 25727, 311413, 308284, 308334, 308291, 308241, 321317, 321232, 456122, 457124, 475125, 360271, 358311, 285346, 452374, 257418, 3118, 311316, many more. Ideal tools and accessories, case sizing dies. WANTED—30 Remington die, .25-20 Rep. cases, etc. H. Romness, Zumbrota, Minnesota.

FOR SALE—54 WINCHESTER 22 HORNET, EXcellent in, good out, hundred shells, $90.00. Lyle Jochim, Police Dept., Champaign, Illinois.

FOR SALE—30 LUGER, 3⅝″, GOOD, 138 HOLlow-point cartridges; price $52.50. Dr. S. A. Freeman, Gridley, Calif.

FOR SALE—SPRINGFIELD ARMORY RIFLE #619125 as issued; excellent; 100, 1936 F.A. ammunition in clips. Sling, $70.00. W. E. Lincoln, Box 272, Buzzards Bay, Mass.

FOR SALE—VOLAND & SONS ANALYTICAL Balance in varnished wood and glass case with drawer. Balance has Agate bearings, sensitivity 1/10th mg. Also pair 6½″ brass balances on wood base 4¼″x6½″. Both balances and four sets weights, $85.00. M. M. Stewart, 11527 Garfield, Hollydale, Calif.

FOR SALE—TWO COLTS—MATCHED PAIR, .22 and .38 Special. Both Officers' Models Target. Heavy barrel 6″ blue, dove-tailed hammers smooth action, embedded cylinder, patridge adjustable sights, mahogany case, felt lined and fitted for both, excellent to perfect. Complete $175.00. Individually, $85.00 each. Dr. H. A. Oaskow, 125 Broad St., Elizabeth, N. J.

FOR SALE—PERSONAL CUSTOM 300 H&H, Winchester 70 Action, Dubiel Match Target weight barrel. Hensoldt 2¾X scope. Stith mount. Inside gun and scope excellent. Outside blue worn. Superaccurate. 80 shells, $250.00. Complete new Standard Winchester 70 stock, $15.00. E. G. Pope, Lubbock, Texas.

FOR SALE—MODEL 70 WINCHESTER .30-'06 Stith Streamline Mount, Lyman Alaskan scope, Lee Dot, recoil pad, Tilden safety, swivels, sling, excellent. 80 custom loads, 40 factory loads, custom saddle scabbard. Money order, $295.00. Dr. Averbach, Medical-Professional Bldg., Corpus Christi, Texas.

FOR SALE—75 SPORTER, 29S, SLING, EXCELlent, $60.00. 2x12x28 Springfield, very good plus, $35.00. Krag cut down, good, $35.00. Money orders please. Curtis Pfluger, 17 Goodwin Place, Brooklyn 21, N. Y.

FOR SALE—357 SMITH & WESSON 8¾″ BARrel, excellent in and out. Gold bead front sight, special Magna stocks. 50 cartridges. First money order, $130.00. Thomas R. Walker, Box 233. Independence, Ohio.

FOR SALE—30-'06 CARTRIDGES F. A. M1, 1937 loading in original case clean bright and accurate. 7½¢. J. L. Vincent Sporting Goods, Aud, Missouri.

FOR SALE—WINCHESTER MODEL 1895. CALIber .405 custom grade. Barrel excellent inside. Finish good outside. Stock and fore-end made of selected curly grained walnut with especially fine checkering. No rear sight, but receiver drilled and tapped for Lyman receiver sight number 38. Fine brush-country deer rifle, $75.00. A. O. Boniface, 366 Madison Avenue, New York 17, N. Y.

FOR SALE—MACHINE GUN RELICS, WORLD War 1. List by request. John Hintlian, 273 Maple Hill Ave., Newington 11, Conn.

FOR SALE—WINCHESTER 52 BULL GUN Marble Goss rear sight, Lyman front sight, Model #63254B, perfect, $150.00. Winchester 52 Standard barrel, leveled rear sight, good, $75.00. J. Eldon Bustard, 3334 Campbell, West Dearborn, Michigan.

FOR SALE—MODERN BOND MODEL "C" HORnet tool, very good, $10.50. Lyman full length Hornet resizing die, perfect, $3.00. Haenel .22 air pistol, very good, $9.00. Mason Jones, 330 S.W. Sixth Ave., Portland 8, Oregon.

FOR SALE—PURDEY 12-GAUGE 30½″ BARrels, double hammerless automatic ejectors, Withworth steel barrels, 2¾″ chambers left modified, right ¼ choke. Drop 2⅝″ x 1⅝″, straight grip, 13⅞″ with recoil pad. Single trigger, weight 7 lbs. Oakleather trunk case and fittings. Excellent condition, $750.00. List—$1,181.00. Purdey 12-gauge 30″ barrels, double hammerless automatic ejectors, Withworth steel barrels. Chamber 2¾″. Left modified choke, right improved cylinder. Drop 2⅛″ x 1½″ straight grip, 14¼″ with recoil pad. Double triggers, weight 6 lbs. 13 ozs. Excellent condition, $500.00. List—$1,005.00. J. P. Sauer 12-gauge 30″ barrels, double hammerless automatic ejectors, Krupp steel barrels, 2¾″ chambers, full and full choke. Drop 2-11/16″ x 1⅝″, half pistol grip, 14½″ with recoil pad. Double triggers, weight 7½ lbs. Deep relief engraving on action with crossbolt and triple lock. Excellent condition, $325.00. List—$600.00. Sold on money back guarantee. No C.O.D.'s. Arthur Kovalovsky, 1515 No. Gardner Street, Hollywood 46, California.

FOR SALE — WINCHESTER .33 CALIBER, brand new in, out. Not a scratch. Perfect. 2 boxes shells, $85.00. Send either on approval. WANTED—Krag, action and barrel must be A1. Prefer stock good but not vital if price right. WANT—Winchester 22 L.R. slide action. Good inside. If price is wild don't answer. C. A. Scott, 511 S. E. 69th Avenue, Portland 16, Oregon.

FOR SALE—250-3000 SAVAGE E. G., REDFIELD Hunter rear, 5 boxes cartridges, Bond B. tools, some components, perfect, $125.00. 36 Caliber percussion refreshed, with new walnut full stock, light, plain, $35.00. Foster Marshall, 6936 Pearl Street, Jacksonville, Florida.

FOR SALE—SPRINGFIELD, TYPE C STOCK sling, very good, 285 clear empties and clips, $80.00. Remington automatic .20-28 mod, very good, box shells, $75.00. Savage 219 Hornet, factory grease, 41 H.P. shells, stamp please, $35.00. H. Eatherby, 1900 Sweetbriar, Nashville, Tenn.

FOR SALE—WINCHESTER 70, 300 H&H STANDard rifle with extra 375 H&H barrel and stock fitted for same action. 75, 300 H&H 180-grain, 60, 375 H&H, 235-grain, all absolutely perfect, $135.00. Springfield as issued #662572, excellent bore, tight action, blueing shows wear, very good stock, box ammunition, $62.50. Charles Woritt, 42 Sherwood, Franklin Square, New York.

FOR SALE—WINCHESTER MODEL 70—.270, Lyman 48 WJS, excellent, $125.00. Lyman Alaskan, tapered post reticule also quick detachable mount for M70, excellent, $81.00. WANT—Pacific tool, powder measure, Hensoldt 4X scope, Zeiss 6 or 8X scope. Bausch & Lomb or Zeiss binoculars in 7 to 10 power. Curran Bashore, Mifflintown, Penna.

ATTENTION, HORNET-LOVELL FANS! FEW Winchester h.w single-shots with Winchester Standard 52 barrels available in Spring. $80.00. $25.00 with order. Some ammunition available. Paul Ratliff, Hillyard, Washington.

FOR SALE—SWEET SIXTEEN BROWNING, TWO barrels, one new Poly Choke, other full choke, good, excellent, 5 boxes heavy shells, sheepskin case. $180.00. Money order. Dr. W. G. Meier, 809 North Eighth Street, Sheboygan, Wisconsin.

FOR SALE—16-GAUGE ITHACA #2 GRADE, EXcellent, 2 sets barrels, double, sights, 26-inch skeet, imp. cylinder, 28-inch full modified, auto ejectors, single selective trigger, recoil pad walnut stock. Semi Beaver fore-end, fancy hand checkered, hand rubbed oil finished metal. Fancy hand engraved, 5 boxes ammunition, $150.00. Money order. F. L. Larson, 360 Park, Marquette, Michigan. Member.

FOR SALE—"SMITH & WESSON HANDGUNS" McHenry-Roper, $7.50 postpaid. Guaranteed to please the collector-shooter. Reed Thompson, Jr., Lewistown, Penna.

FOR SALE—TWO GENUINE WAFFENFABRIK-Oberndorf Mausers .30-'06. One with full length rib, 24" barrel. Other Mannlicher type 20" full stocked barrel, engraved trap butt plate, G&H scope base, Lyman 48, both Circassian with cheekpiece, both new condition, $225.00 each, $400.00 the pair. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

FOR SALE—REMINGTON #11 AUTOMATIC Premier grade, 30", ventilated rib, full and 26 ventilated rib cylinder. Fine leather case, stock dimensions standard. Excellent. Price, $350.00. A. M Simpson, 4525 Lindell Blvd., St. Louis, Missouri.

FOR SALE—52 HB, NO. 62570-B, MARBLE-GOSS and 77, sling, extra 10-shot clip and 500 Super Match, factory condition in every way fired less than 100 shots, $100.00. 25 Krag, Niedner barrel on Hi-Side action recently assembled, chambered, blued and stocked by Floyd Butler, blocks only. A very nice job, complete with tools, $100.00. Hi-Standard HE 6¾", bore and action excellent, blueing faded by perspiration around grip, King click rear, 500 L. R., $60.00. WANT—Good single shots, also see December ad. William Marble, 11 Miquon Road, Conshohocken, Penna.

FOR SALE—COLT WOODSMAN WITH NEW Match Target grips and new 6½" barrel fired 300 rounds. Also 4½" barrel and 500 Kleanbores, $65.00. 7.63 Mauser Military automatic 5" barrel with 150 cartridges, fairly good, $37.00. Colt 44 Single action 7½" blue, fairly good with 50 cartridges, $35.00. 4 boxes .270 Winchester $8.00 or TRADE for .45-70 or .30-40 or .32 S&W. Fred Kranz, Sauk Centre, Minn.

FOR SALE—MODEL 99 SAVAGE .250-3000 TAKEdown rifle, receiver peep with folding rear sights, 35 rounds ammunition, very good, with extra 410 barrel. $60.00. Savage 23-D Hornet, sling, late 29S scope with Stith mounts, excellent with 200 rounds fresh ammunition, $75.00. 1,500 rounds Hornet ammunition @ .08¢. Money orders only. J. S. Bonner, Box 418, Clarksdale, Miss.

FOR SALE—EXCELLENT WINCHESTER 70, .30-'06 with Alaskan, Griffin & Howe mounts, 200 factory ammunition, many components, $250.00. Remington 37, perfect, with ammunition, $100.00. Bausch & Lomb 6 x 30 binoculars, good $47.50. Details of above articles on request. Money order or bank draft only. Frank Sherwood, Applegate, California.

I WISH TO THANK ALL OUR REGULAR CUSTomers, also dealers and custom reloaders, for their patronage the past year. Don't be disappointed next hunting season, send your empties in now to be reloaded. Loading over 75 calibers, casting over 100 different bullets. Complete stock of Hercules and DuPont rifle and pistol powders, also some shotgun powder, shot, et cetera. Reloading tools, bullet moulds, telescopes and mounts, iron sights, about everything for the hunter and reloader. WANT—primers, empty cases, .25 and .32 caliber gas checks, others. F. R. Krause, The Gun Man, 305 East Iron, Albuquerque, N. M.

FOR SALE—SPECIAL SALE OF NEW AND USED shotguns and rifles, list ready, stamp please. Kimball Arms Company, Woburn, Mass. tf.

FOR SALE—NEW CATALOG OF ANTIQUE AND Modern Firearms—Send coin 25¢. Household thermometers, new 75¢ value, 25¢. Physicians' thermometers, pocket style with case, brand new, 3 for $1.00. Gun oil 1 oz. bottles 14¢ each, $1.50 per dozen. Forward money with order, No C.O.D. shipments. Public Sports Shops, R-75, 13 S. 16th St., Phila. 2, Penna.

RARE—SHARPS .40-90 B.N. MATCH RIFLE, 15 lbs. D.S.T. ammunition, some tools, $100.00. Genuine Pope-Ballard, .33 D.S.T., p.g. stock Schuetzen, Special target sights, $125.00. Stevens-Pope-Ballard .32-40 D.S.T. beautiful p.g. maple stock, combination windage front, Vernier rear, $125.00. All rifles Good. Paul Ratliff, Hillyard, Washington.

FOR SALE—BAUSCH & LOMB 20X SPOTTING scope, excellent, $50.00. Gerard 5¾X scope with Redfield Windage Mount for Model 70. This scope gives luminosity of about 100 since the lens have been coated, excellent, $150.00. Roy E. Weatherby, 7672 California Avenue, Huntington Park, California.

ILLUSTRATED CATALOG OF ANTIQUE PISTols, rifles, swords, rapiers, daggers, armor 25¢. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

SEND THREE CENT STAMP FOR LATEST LIST of Modern and obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf.

FOR SALE—SPRINGFIELD SPORTER, NEW stock, new 48 ramp front, good plus, $85.00. Original Buffalo Newton '06, D.S.T., bolt head sight, Springfield barrel, good, $85.00. Springfield #1,364,430, C stock, good plus, $80.00. 50 rounds with each gun. E. W. Robbins, Milford, Mass.

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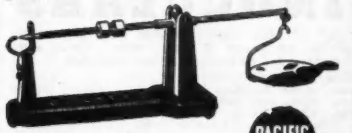

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FOR SALE—WINCHESTER MODEL 70, SUPER grade, .220 Swift, very good, $100.00. Browning O&U, 12-gauge ventilated rib, 32", twin trigger, very good, $150.00. Star Gauge National Match Springfield, Lyman #48 rear, .30-'06, very good, $100.00. Wayne Garner, Box 161, Wilmington, Illinois.

SELL—ITHACA WESTERN 20-GAUGE DOUBLE, MF, 28" single trigger, sights, pad, case, excellent, 250 shells, $65.00. A. Julsrud, Red Wing, Minn.

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FOR SALE—SAVAGE MODEL 23D-344 LYMAN scope, fired 45 times, 55 shells, $75.00. For Sale or Trade—Winchester 52 H.B. Late type speedlock, 10X Lyman Junior scope, Marble Goss rear, No. 77 detachable front sight, very good in, out, $125.00. Trade for Model 720 Remington 270, Model 70 Winchester in 220 Swift or Model 12 Winchester 16, 26 or 28-inch barrel, prefer full choke. All must be very good. Harry Wigley, Reedsville, W. Va.

FOR SALE—'06 WESTERN MATCH 40 @ 10¢. WANT—6mm. bullet seater, 6mm. bullet puller. 6mm. and 30 gas checks. Double barrels for King Nitro 12-gauge. Same for Parker 12 hammer. Breech bolt for Meriden '14—22 pump. Walter Whitcomb, Gladstone, Oregon.

SELL OR TRADE—SAVAGE 99, 250-3000, EXcellent inside, very good out, $65.00. Marlin, hammer, 12x30" full, pump, no butt-stock, fair, $15.00. Springfield .45-70, single, good, $6.00. WANT—12 Remington automatic, excellent or better full choke. L. M. Kelso, Rocky Ford, Colorado.

FOR SALE—WEAVER 440, POST, VERY GOOD, some blue wear, $27.50. Good Lyman tang peep for Savage 99, $4.00. TRADE—18 clean factory .257 Roberts cartridges for same, .30-'06. WANT—Standard 70-'06, excellent or better, 24-inch barrel, open sights. D. H. Porter, Magic City, Texas.

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SELL OR TRADE—WEBLEY MARK "V" .455 excellent, 70 cartridges, holster, $45.00. 32 Smith & Wesson Ladysmith, perfect, $50.00. WANT—K-22 Masterpiece, 32 Colt Automatic, Winchester 65, .32-20, all perfect. R. V. Withee, 62 Endicott Road, Stoneham 80, Mass.

WINCHESTER 94, .32-40, OCTAGON 26", VERY good, $25.00. WANT—Stevens #425 in 35 Remington caliber or would buy Stevens. Walter Robertson, Shearer Street, Palmer, Mass.

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FOR SALE—PERFECT WINCHESTER M94, .30-30 carbine, selected stock, 2 boxes factory cartridges S.P., $60.00. Winchester 8X scope with mounts, excellent, $10.00. Colt 45, 1917 Army revolver, good, with cartridge belt and L.H. holster, $40.00. First money order. R. D. Smith, 36 Beers St., New Haven, Conn.

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SELL OR TRADE—S&W .38 SPECIAL 5", GOOD, $50.00. Want 52 Standard, very good condition. A. S. Hoffa, Barton, Maryland.

SELL OR TRADE—.22 ACE CONVERSION Unit, inside perfect, outside good, $29.50, or trade for Mashburn Bee components. C. E. Lindenmeyer, 1207 E. Main St., Richmond 19, Va.

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WINCHESTER 94 CARBINE, LYMAN 56, PACific dies, shells, very good, $70.00. 28-30 Stevens 44½, loading outfit, good, $40.00. TRADE—K22, excellent for 4½ Woodsman. WANT—Winchester Hi-Side rifle, plain or fancy, action, barrels and parts for same. Edward Lucas, Route 19, Box 88B, New Brunswick, N. J.

SELL OR TRADE—38 HAMMERLESS I.J. REvolver, 3¼", nickel, perfect, $21.00. 22 Sportsman revolver, new, custom holster, $33.00. WANT—4½" Woodsman. Zipper factory cartridges. 20-gauge double, S.T.A.E. for cash or will trade excellent Winchester 12-20-26 Poly Choke. V. R. Colburn, 141 Wheeling Avenue, Elm Grove, West Virginia.

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SALE OR TRADE—KODAK AG, 3¼ X 4¼, Compur Lense F 4.5, 135mm, $110.00. Interested in binoculars or Swift ammunition. Fowler E. Macy, Box 286, Converse, Indiana.

FOR SALE—28-GAUGE WINCHESTER SKEET grade, perfect, ammunition and extras, $140.00. Special Savage 22 Target rifle, excellent, extras, $65.00. New 8 x 30 miroculars, $60.00. Four B mounts, $8.00. Three T mounts, $6.00. WANTED—Browning Sweet Sixteen Colt 4½, K22, 8 x 40 B&L's. Bob Payne, 609 Utica Road, Utica, New York.

FOR SALE—EXCELLENT LYMAN 1⅛ TARGETspot, 8x, $50.00. WANT—K22 Masterpiece, 52 Sporter. Lieut. T. C. Stromberg, Naval Air Station, Norman, Okla.

SELL OR TRADE—B&L 10x45 BINOCULARS, C.F. excellent, no case, $150.00. B&M Marksman telescope mounts, good, $60.00. Lyman Expert telescope, mounts, $15.00. Will Pay $20.00 for 5A with mounts. Paul Ratliff, Hillyard, Washington.

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SALE OR TRADE—WINCHESTER HI-WALLS 32-20, 32-40, actions wood, excellent to perfect, no sights. 32-20 barrel, excellent, 32-40 barrel, poor, $35.00 each. Box 38-40, $2.25. Box 30 Newton, $2.25. 2 boxes Western Hornets for Bees or? Winchester 65, .218 Bee as brand new except wood refinished in oil, added swivel screw eyes, box cartridges, $75.00. No telegrams, money orders only. WANTED—Reasonable takedown .300 Savage. Winchester 92, .25-20 takedown. Remington automatic .300 Savage caliber with ammunition or? Beilstein, 16 Bennett, Pontiac, Michigan.

45 AUTOMATIC 1911 COLT SMOOTHED ACtion, good, $50.00. Colt .22 automatic 6½" barrel, inside perfect, outside excellent, $60.00. Remington hunting, skinning knife, leather sheath, sharpening stone, perfect, $5.50. WANT—22 Official Police or what? Abe Epstein, 236 Broadway, Newburgh, N. Y.

SELL OR TRADE—FIRED CASES. 1,000, 30-'06 Commercial @ 2¢, full length resized 2½¢, or primed N.M.N.C. 4¢. 1,000 F.A. .30-'06 Late issue full length resized and primed N.M.N.C. 2½¢, 325, 30 Remington automatic, 200, 220SW. with primers, 4½¢. WANTED—Schmitt Model 24 tool, and extra dies, or tool, and gun complete. Julius Nelson, Frost, Minnesota.

FOR SALE—9MM MAUSER AUTOMATIC PIStol, excellent, 100 factory loads, stock holster, $65.00. WANT—257, '06, .300 Magnum or other rifles. Magnum shotgun, high grade binoculars or scope sight. Amos C. Wells, Lebanon, Oregon.

FOR SALE—RIFLEMAN 1944, 1943, 1942 AND 7 Months 1935, 9 months 1932, 7 months 1931, $8.00. WANT—16 or 20-gauge LeFever single barrel. TRADE—Remington Sportsman 16-gauge rib with Poly Choke. WANT—Remington Sportsman with 28-inch full choke vent rib barrel. A. J. Cook, Box 422, Delaware, Okla.

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SELL OR TRADE—VERY GOOD COLT ARMY Special, D. A. 38, 6" barrel, blue, holster plus 1 box reloads, $45.00. Thomas F. Nugent, Great Barrington, Massachusetts.

SELL OR TRADE—NEW SAVAGE M19, .22 LR., $48.00. OR TRADE for Winchester 75 Sporter or Remington 513 Sporter, Lyman or Redfield receivers. Same condition Savage. E. L. Knowles, 327 Aviation Rd., Marietta, Ga.

SELL OR TRADE—MODEL 20, .250-3000 SAVAGE Sporter, excellent. Weight 6 lbs., rear, with elevator and double aperture peep, blade front, checkered fore-end and pistol grip with cap, recoil, safety, hand rubbed stock, new canvas case, 50 factory shells, $110.00, or will take good late model Winchester .30-30 carbine valued at $35.00 as part payment. Money order only. C. W. Kenney, 215 East Sixth St., Beaumont, California.

SELL OR TRADE—45 COLT BISLEY, 7½", FAIR to good, $45.00. Martini-Henry, .22 Greener Conversion, poor, mechanically o.k., $15.00. Stevens 44½, .32-20, action o.k., high-comb stock, poor in, $25.00. British .303 Enfield (Pattern '14), good out, excellent in, $60.00. WANT—Smith & Wesson break-open target models, Straightline, must be good in and mechanically. Farquharson action. Charles Weeks, 8515 Hempstead, Bethesda, Maryland.

SELL OR TRADE—HI-WALL 2R, NEW, $50.00. WANT—70 Winchester or 99 Savage. Earl Price, Lodi, Wis.

SELL OR TRADE—BULLETS—SPEER-HORNady, 22 caliber pointed soft point, ready for immediate delivery, $2.25 per hundred. Postpaid or will trade for shooters' supplies. J. W. Hornady, 624 South Monroe St., Grand Island, Nebraska.

SELL OR TRADE—XLNT SOUTH BEND TOOLpost grinder, $50.00. XLNT Match Target Woodsman, new L-H holster, $80.00. WILL TRADE Thomas-triggered H.B. 52 for M70 .257 or .220 Swift. Pop Eimer, 817 Maiden Lane, Joplin, Mo.

SELL OR TRADE—RIFLEMAN 1932-1944, $15.00, one missing, Outdoor Life 1928-1942, $8.00, five missing. Geographia 1932-1944, $15.00. Motor Boat 1940-1944, $4.00. Want Ideal lubricator dies for 38 Special and 30-06, hunting scope, powder scale. G. A. Needham, Box 217, Kellogg, Idaho.

SELL OR TRADE—FIREARMS BOUGHT, SOLD, exchanged. Especially interested in all types Smith & Wesson revolvers and pistols. Send 10¢ in coin or stamps for complete list. H. L. Remmel, 1622 Center St., Little Rock, Arkansas. tf

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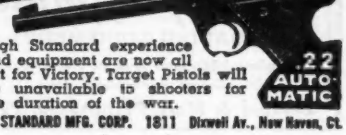
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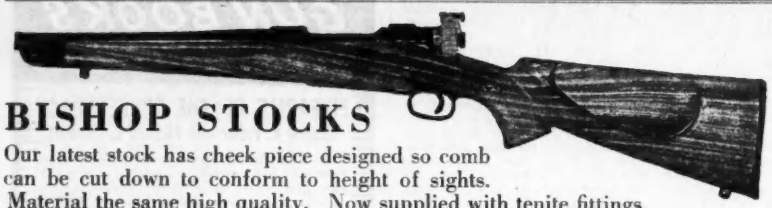

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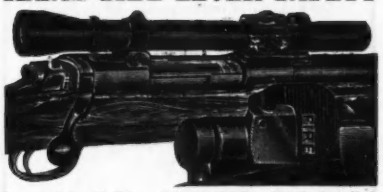

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WANTED—BAUSCH & LOMB OR ARGUS SPOTting scope, Lyman or Fecker Target scope any power. W. P. Klapp, Paoli, Penn. 1-45

WANTED — ANYWHERE IN U. S.—WILL promptly buy Antique Firearms. Fair prices; minimum effort for seller. James Serven (Life Member), Santa Ana, Calif. tf.

WANTED—MAUSER 98 ISSUE RIFLES, ACtions, complete or otherwise, barrels no importance. Quantity lots 98 Mauser, Enfield, Krag, Springfield parts. State condition, price. Flaigs' Hunters Lodge, Millvale, Penna.

WANTED—DOUBLE BARREL, 12 GAUGE SHOTgun, 26-inch barrels, modified and improved cylinder or skeet boring. Describe fully, all offers answered. W. S. Miller, 812 Triphammer Road, Ithaca, N. Y.

WANTED—WALTHER PP; PPK; HP (MILItary model); and Olympia models. Any caliber. Colt .22 Bankers Special. For cash or will trade excellent Colt Super .38 Auto with ammunition. Robert Johnson, 1241 Sigsbee St., Grand Rapids 6, Michigan.

WANTED—.38-55 WINCHESTER HI-WALL TARget shape and sights. Perfect in. Also 200 150 grain HP .30-'06 bullets. C. L. Tinker, 119 Fair Avenue, N. E., New Philadelphia, Ohio.

WANTED—HORNET IDEAL RELOADING TOOL, with muzzle resizer and shell expanding chamber. T. C. Fleming, 834 Greene St., Augusta, Georgia.

WANTED—REMINGTON .50 CALIBER NAVY pistol. Wanted for action only. Robert W. Knight, Seneca Falls, New York.

WANTED—CASH OR TRADE FOR COMMERcial Mauser action and .25 caliber jacketed bullets. W. L. Stambough, 1211 El Paso St., Plainview, Texas.

WANTED—LATE MODEL 52 WITH MICROMETer rear. R. J. Green, Box 920, La Grande, Oregon.

WANTED—B&M VISIBLE POWDER MEASURE, powder scales, lubricator and resizer .257 caliber. Maurice Newton, 703 Highland St., Boise, Idaho.

WANTED—PAIR OF FULL LACE PREWAR rubber high tops size eleven in new condition. Mel Leitch, 130 Linden Avenue, Glen Ridge, New Jersey

WANTED—WINCHESTER 52 STANDARD, LATest model, Marble-Goss or Redfield Olympic rear sight. Perfect. Steve Jauchler, 707 Eleonore, New Orleans, La.

WANTED—BRAND NEW OR ABSOLUTELY perfect Marlin M90 .22 Hornet, .410 over and under, George Jackson, RFD 7, Norwich, Conn.

WANTED — MOSKEETO GUN, REMINGTON slide action Model 121SB. Mauser rifle or action, double-set triggers, in 7 mm. or 6.5. Jacketed bullets .257 inch 100 to 115 grain. Ideal #2 redecapper .25-20 SS. Describe fully. Alton Dexter, 65 Weybosset, Fall River, Mass.

WANTED — SHOTGUNS, HI-POWER RIFLES Few 3 inch 410's, few .300 Savage. F. C. Culler, Alliance, Ohio.

WANTED—FOR CASH: ANTIQUE PISTOLS, rifles, swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—NEW CATALOG OF ANTIQUE AND Modern Firearms—Send coin 25¢. Fair prices paid for Target pistols, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-75, 13 S. 16th St., Phila. 2, Penna.

WANTED—2R OR .25-20 SINGLE SHOT CASES, small rifle primers, Zielkline, Krag and Mauser actions. Purdie, Faribault, Minn.

WANTED—22 CONICAL BALL, .22 SHORT, .22 Long Rifle, .32 S&W, Long and Short, .38 S&W Good used Colt & S&W revolvers. W. M. Perry, 1609 Main St., Columbia, S. C.

WANTED—ITHACA MODEL 37, 12-GAUGE, preferably with Cutts Compensator. DCM Springfield Sporter Stock, complete with all fittings, also type C stock. Will purchase small or large lots of Springfield parts, including barrels. E. S. Burrell, 717 Wyndmoor, Phila. 18, Penna.

WANTED—BARREL 16-28" OR 30" F FOR Browning automatic, barrel for Remington automatic 12, 28M or full. Examination privilege, excellent. Albert Kaiser, McQuady, Kentucky.

WANTED—OBSOLETE AND ANTIQUE FIREarms in working condition single items or entire collection. H. A. Brand, 1008 Ingalls Building, Cincinnati, 2, Ohio. 5-45

URGENT—NEED .25 OR .32 CALIBER PISTOL and ammunition for overseas. Arthur Boggs, 1604 Mass. Ave., S. E., Washington 3, D. C.

WANTED—SET OF BARRELS FOR DALY O&U, 16 gauge. Sale—Winchester .30-30 64 deer, 60 rounds, excellent, $80.00. 52 Sporter, 300 rounds, excellent, $95.00. Maj. E. H. Worth, Sqdn D, Westover Field, Mass.

WANTED—REMINGTON AUTOMATIC SHOTgun, 16 or 20 gauge, must be perfect. Will NOT pay robbery price. Would consider Remington Model 31, same gauge. Calvin L. Thex, Ashland, Mont.

WANTED—WILL PAY 3¢ EACH FOR .257 BULlets, 90, 100 or 117 grain H.P. or S.P. N. L. Cornell, Dunlop Tire & Rubber Corp., Buffalo 7, N. Y.

WANTED—MODEL 70 .300 MAGNUM AND AMmunition for cash. Will trade Model 70 Swift with ammunition. Lloyd Myers, Drawer 551, Bristol, Tenn.

WANTED—JOHNSON'S MODEL J-75 AND A-75 O. B. motors; will consider others. Salt water rod and reel, Surf Reel. J. L. Fricks, Albertville, Ala.

WANTED—KING RAMP REFLECTOR FRONT sight, square post bead and King micrometer rear sight, square notch, both for Colt Target Woodsman. Also want .22 Hornet shells, Super X hollow point preferred. Member, Pat Walsh, Jr., Susanville, Calif.

WANTED—MODEL 1917 COLT OR SMITH & Wesson, also .38 Special ammunition. Pvt. Neil Terhune, Daggett Municipal Airport, Daggett, Calif.

WANTED—6½, 8½, 116 AND 120 PRIMERS, 48 or 55 grain Sisk .220 Swift bullets; excellent Pacific powder scales. Sale—Winchester M70 Hornet, excellent in and out, 10X Lyman Targetspot, seven boxes ammunition, $195.00. H. D. Myers, Box 207, Hagerstown, Md.

WANTED—7½ INCH BARREL ONLY FOR S. A. .45 Colt, very good or better. M. G. Tyler, 5650 Rhodes Avenue, North Hollywood, Calif.

WANTED—WINCHESTER HI-SIDE ACTION OR rifle, prefer set triggers. F. Taylor, 907 Sunnyside, Ann Arbor, Michigan.

WANTED—30-06 CALIBER WINCHESTER OR Remington, perfect, or .300 caliber Remington "81" Automatic. Pay cash or trade my new .32 caliber Remington "141" Gamemaster. S. de Ranitz, Prairie du Chien, Wisconsin.

WANTED — PERFECT MATCH WOODSMAN Colt and perfect .32 Colt Officers' Model. Rex Gun Shop, Odessa, Texas.

WANTED—ENGLISH DOUBLE RIFLES, TOP grade also best grade over and under. Col. B. L. Harrison, Box 1320, Albuquerque, New Mexico. 3-45

WANTED—"OPAQUE PROJECTOR" SUITABLE for projecting pages of books on screen; .38 Special moulds; .38 Special die for Schmitt #12 tool; .45 & Ace or Service Ace combination. Mark A. Cooper, 100 Second Avenue, Rome, Georgia.

WANTED—REMINGTON MODEL 8 AUTOLOADing rifle. George Lewis, Alexandria, Minn.

WANTED—COMPLETE DIES FOR STAR MAchine and Lubricator in .32 S&WL, .32-20, .38 Special; .44 Special; .45 Colt. Pacific, Potter and Ideal tools for 2R, 218B, Hornet, Gebby Varminter. Ideal crimpers, resizing dies and other tools for all gauges. W. Ashe, 635 Belden Avenue, Chicago 14, Ill.

WANTED—COLT WOODSMAN, ACE, BISLEY or SSA .38 Special, Winchester 61, 62 or 75 .22 rifle, Springfield 1903 Service; .22 M2 or M1 rifles, Colt percussion revolvers. J. W. Aitken, Overly, North Dakota.

WANTED—LYMAN #77H FRONT AND LYMAN #58-E receiver sights or will trade 48Y on same. Keith D. Lott, 186S. Third W., Lehi, Utah.

WANTED—.30-'06 ENFIELD, RUBBER AIR mattress, 29S scope. Give price and description. L. V. Ely, Oak Harbor, Washington.

WANTED—YOU HAVE THE GUN—WE HAVE the buyer! Latest catalog 10¢. Segal's Gunhouse, 752-T Northwest 66th St., Miami 38, Fla.

WANTED FOR CASH 44 COLT AND REMINGton percussion revolvers, poor to fine. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—2R 22-3000 LOVELL LOADED SHELLS and loading tools, state price. Lt. Comdr. R. W. Pickard, 705 Beverly Drive, Alexandria, Va.

WANTED—MAUSER AUTOMATIC PISTOL, Model of 1932, with 20-shot detachable magazine. Also, Spanish imitations: the 7.63mm Astra and Super Azul. Lt. W. G. Ogden, Ordnance Dept., Route #1, Oak Harbor, Ohio.

WANTED—MODEL 70, .250-3000 ANY GRADE, 20-inch barrel preferred with or without scope, excellent to perfect. Henry Adolphi, 77-D McNeal, Bremerton, Washington.

WANTED—REVOLVER FOR .45 ACP AMMUNItion. Prefer commercial version of 1917 S&W, in very good condition or better. T/4 John T. Wynne 17107790, Hq. 4th Army, APO #20, Ft. Sam Houston, Tex.

WANTED—52 SLOWLOCK AND WINCHESTER 8X scope, state condition and lowest price first letter. Edwin H. Burden, Route 5, Wapakoneta, Ohio.

WANTED—PACIFIC DIES FOR 256 NEWTON: 32-20, .25-20, .45-70, K Hornet. Will buy empty pistol and rifle shells at fair prices, also jacketed bullets. Commercial Shell Reloading Company, 14414 Cruse, Detroit 27, Michigan.

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WANTED—#115 WINCHESTER, REMINGTON 8½ or 9½ NMNC primers original factory boxes, also Sharps Borchardt actions good condition. D. A. Kuhn, Marietta, Ohio.

WANT—S&W K38 OR 6" 38-44 & AMMO. ROUND butt 2" 38; 22 rifle with scope; 9mm. Luger & 6.5 Mannlicher ammo. Trade ex. OM22, Hi-Standard. E. W. Staudte, 5238 Milwaukee Ave., Chicago 30, Illinois.

WANTED—MAUSER MAGNUM ACTION OR complete Magnum rifle, .357 S&W Magnum and Hi-Standard Model E. Lee Newman, Shamrock, Texas.

WANTED—EXCELLENT 70 WINCHESTER .257, .250-3000 Savage 100-grain bullets, excellent .257 Pacific dies. T. R. Conrad, Indiana, Penna.

INTERESTED IN OBTAINING ALL MODELS S&W revolvers, pistols, especially older models. H. L. Remmel, 1622 Center, Little Rock, Arkansas. 12-45.

WANTED—.45-70 AND .50-70 SPRINGFIELDS IN fair or better condition, as issued with bayonets preferred, but will consider any reasonable offer. Also want .32 Colt Auto or 7.65mm Ortgies, good or better with some ammunition. Good or better Frontier or Bisley in any caliber. TRADE—I have a good stock of Weaver scopes and a good selection of metallic ammunition for sale or trade at OPA list. Will make accurate installation of Weaver scopes on your favorite rifle and bore sight it at any desired range up to 200 yards. Will answer all letters. Roger Schmill, Gunsmith, 18429 Fielding Avenue, Detroit 19, Michigan.

WANTED—41 CALIBER C. F. CARTRIDGES, Longs or Shorts, any amount. Ernest B. Hooper, 902 E. Market St., Crawfordsville, Indiana.

WANTED—CROSMAN AIR RIFLE .22, VERY good to excellent. H. E. Hays, Jefferson, Penna.

WANTED—12 OR 16 REMINGTON 31 MODIfied. Also .70-270 Winchester and ammunition. Blake, 4 Amsbry, Binghamton, N. Y. Member.

WANTED—REMINGTON MODEL 14 .30 OR .32, prefer carbine. W. A. Schutte, 2751 Toledo, Minneapolis, Minn.

WANTED—30-'06 OR .270 RIFLE ALSO 7.62 hunting ammunition. SELL—180 new primed .30'06 cases @ 6¢. Alfred Streich, 535 East 12th, Casper, Wyoming.

WANTED—WINCHESTER SINGLE SHOT MUSket, caliber 22, or 25 Stevens, RF. Remington single shot musket, caliber 22 or 25. Must be in excellent condition, bore fine. J. D. Conklin, State Theatre, Radford, Virginia.

WANTED—44-45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

WANTED—22 RIMFIRE BLANKS, ANY QUANtity. Write price and condition. George Rock, 1919 North Argyle, Hollywood 28, Calif.

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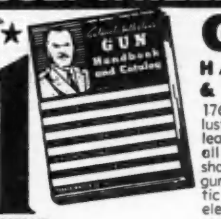

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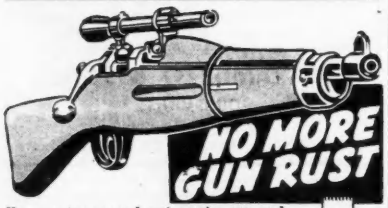

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WANTED—COLT O.M.T. .22 CALIBER. MUST rate excellent or perfect. Please describe fully. R. I. Gibbs, 1603 Dekalb Ave., N. E., Atlanta, Ga.

WANTED—BARREL DRILLS AND REAMERS, chambering reamers and cherries in all calibers. R. Meininger, Doylestown, R.D. 2, Penna.

WANTED—WINCHESTER MODEL 70, .257 ROBerts, 20-inch barrel excellent to perfect, with or without scope, describe fully. Member. W. T. Brown, 215 East 9th St., Newton, Kansas.

WANTED—HERCULES HERCO OR DUPONT Oval powder. Remington 12 auto, with or without barrel. E. Henke, 559 S. Evergreen, Ventura, Calif.

WANTED—PERFECT OR NEW LEFT HAND Sedgley Springfield .30-'06. A. Moore Harvey, Norwood at Madison, Radford, Virginia.

WANTED—REVOLVERS, AUTOMATICS, ALSO gun parts, regardless of condition. Give description and your price. Reply assured. Ken Seitz, Box 1609, Tampa, Fla. 12-45

WANTED—WINCHESTER MODEL 70, 220 Swift or larger, any condition, Ideal lubricator, .225 or .357 dies. J. W. Eatman, Route 4, Cuero, Texas.

WANTED—SAVAGE 99T, FEATHERWEIGHT .300. Have camera, binoculars, guns, watch. E. A. Bastel, Prairie du Chien, Wis.

WANTED—FINEST POSSIBLE WINCHESTER Single Shot action with high sidewalls and thick sidewalls. Prefer double set but would take other. Action alone or entire rifle. Old or bound copies of "Shooting and Fishing," "Arms and the Man" or "American Field." Have Schuetzen powder for sale. Samuel Clark, Jr., Oakland, Maine.

WANTED—FOR CASH OR TRADE. HIGH grade Over-Under 16-gauge gun. Have Camp Perry Colts and plenty 22 caliber cartridges. Marble game getter with scope, 22 Winchester repeater with scope, binoculars. Ben Tarman, Waynesboro, Penna.

WANTED TO BUY—REMINGTON "GAMEmaster" Model 141 and "Woodmaster" Model 81 both 35 calibers. Must be good. Give full description and price first letter. O. L. Davenport, 5600 Raytown Road, Kansas City 3, Missouri.

WANTED—FOR CASH—POWDER MEASURE, scales, Fairbanks or Pacific, lubricator sizes. Wm. Herring, Route 4, North East, Penna.

WANTED—PACIFIC SCALE, PACIFIC .30-40 dies, L.R. & S.R. primers. WILL TRADE 1½ primers. C. C. Barr, St. Marys, Penna.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets, Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—IDEAL RESIZER AND LUBRICAtor, powder measure and scales, state price wanted. Art Leffler, 430 Pacific Ave., Long Beach 2, California.

WANTED—TWO MAUSER M98 ACTIONS OR complete rifle. Wood and barrel immaterial. Ed Howe, Coopers Mills, Maine.

WANTED—ANTIQUE ARMS COLLECTIONS OR single pieces purchased at fair prices. Give full description, Kimball Arms Company, Woburn, Mass. tf.

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METALLIC SIGHTS IN STOCK. REDFIELD 70'S for M99 Savage, '03 Springfield, Remington M30, Mauser, Winchester M94, 92, 53, 55, 64, 65, and Remington 720, $7.50. Lyman 48 for '03 Springfield and Winchester M70 and 54, $11.50. Lyman 48 for Krag and Mauser, $11.00. Redfield 102 for '03 Springfield, Krag, remodeled Enfield, and Winchester M94, 92, 53, 55, 64, 65, $5.00. Lyman 56A for Winchester M94, 92, 53, 55, 64 and Remington M14 and 24, $7.00. Lyman 56S for M99 Savage, $7.00. Lyman 56B for Winchester M-'03, 61 and 63, and Marlin M94, $7.00. Lyman 58RS for Remington M513T, $6.90. Lyman 57MS for Mossberg, $6.00. Lyman 55W for Winchester M59, 60, 60A, 67, 68, 69, $2.00. Lyman 1A tang for Winchester M94 and Remington M8 and 81, $4.50. Lyman 2A tang for Winchester M94, $5.00. Marble Goss extension for M37, Ballard, and Stevens M417, $12.00. Marble Goss 750 for M75, $7.50. Lyman 77 fronts, $4.00. 17A fronts $2.50. Redfield Junior mounts for M-70 and Springfield, Weaver scopes, $9.50. M-70, Springfield and M99 Alaskan scopes, $11.50. Redfield ramp front sights. Send for latest list. Badger Shooter Supply, Owen, Wis.

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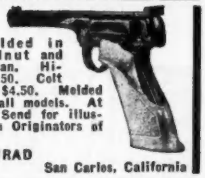

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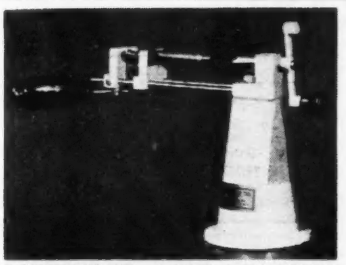

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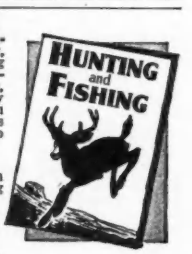

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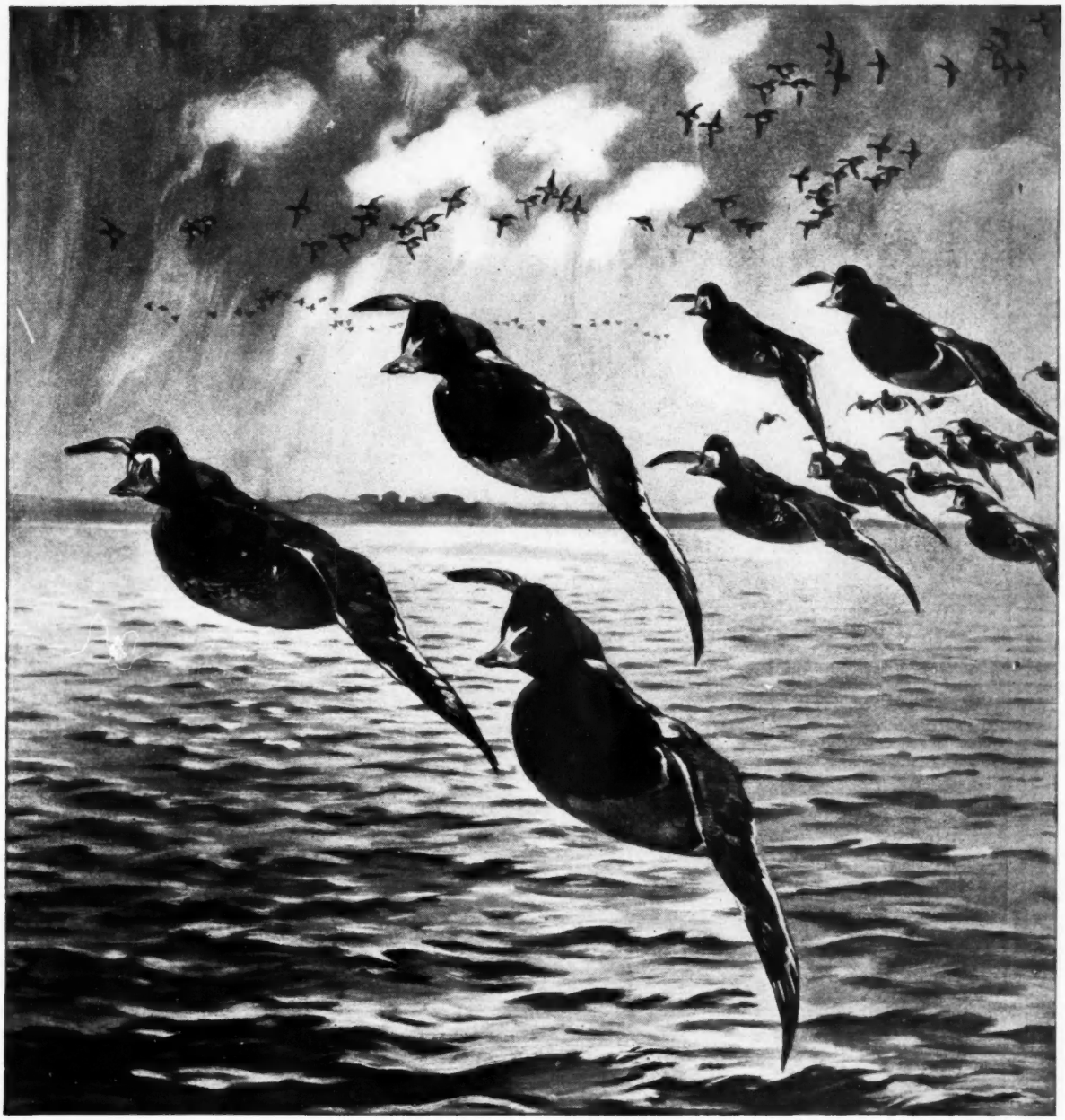

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